
Report on the

Site 36AL480

VOLUNTEER EXCAVATION PROGRAM

Submitted to

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ABSTRACT

This chapter describes the volunteer excavation program associated with the Leetsdale Site, 36AL480 Phase III data recovery project as carried out under the supervision of professional archaeologists. The initial stage of volunteer excavations was conducted by Tetra Tech, Inc., and Michael Baker, Jr., Inc. in August 2001. The second stage of work was conducted by Greenhorne and O'Mara and KCI Technologies in October and November 2002. The volunteer program partially fulfilled District requirements for public outreach set forth in the Leetsdale site data recovery plan in place for the District's Locks and Dams 2, 3, and 4, Monongahela River Project (Lower Mon Project).

Volunteer excavations were conducted in the northern portion Area 3 at the Site 36AL480. That portion of the site was covered with modern industrial fill and a plow zone which was removed mechanically in 2001 as part of the Area 3-South data recovery project. Following mechanical excavations, the area was hand-stripped/shovel skimmed, and two 3 x 5 m unit blocks were established using a total station and the project area datum. One 10-cm (4-in) level and part of a second level were hand excavated and the soils screened through one-quarter inch hardware cloth. In 2002, the two blocks were joined to form a 5-m x 8-m excavation block and excavation continued into the third level following the same procedures utilized in the 2001 season. In total, 8.8 m³ of soil were excavated by volunteers.

In all, the volunteer block excavations produced 31 flaked stone tools, 4,541 pieces of debitage, 16 cores, 12 bifaces, four manuports or unmodified pebbles, 1,350 pieces of FCR, 30 sherds of pottery, and 58 miscellaneous historic items. Diagnostics comprised one Forest-Notched point base, three Half-Moon Cord-Marked type ceramic sherds, and one Watson Cord-Marked sherd, all of which were associated with the Early Woodland period. A light scatter of historic material was also found.

The overall indication is that the area functioned as a lithic workshop. The presence of pottery and FCR suggested additional activity nearby. The volunteer block did not produce any groundstone items. In contrast, net weights, nutting stones, hammerstones, battered cobbles, and pitted stones were all found in the nearby Area 3-South block. Bipolar cores and flakes were found in the volunteer block, but no hammerstones or anvils were found. Also noteworthy, much lower proportions of thermally altered and cortical debitage were found in the volunteer block as compared with the Area 3-South block.

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INTRODUCTION

Project Overview

This chapter reports on the volunteer program conducted as part of the overall Phase III data recovery investigation of the Leetsdale Site, 36AL480 (Figures 9.1 and 9.2). The initial stage of volunteer work was conducted by Tetra Tech, Inc. (Tetra Tech) and Michael Baker Jr., Inc. (Baker) in August 2001 during the Area 3-South investigations. The second stage of work was conducted by Greenhorne and O'Mara, Inc. (G&O) and KCI Technologies, Inc. (KCI) concurrent with the Area 2 investigations in October and November 2002. The Phase III investigation at Site 36AL480 was required to mitigate the adverse effects to the site resulting from the construction of dam segments at the Leetsdale Casting Facility. The dam construction is part of the Locks and Dams 2, 3, and 4, Monongahela River Project (Lower Mon Project), sponsored by the Pittsburgh District, U. S. Army Corp of Engineers (District). The volunteer program partially fulfilled District requirements for public outreach set forth in the December 2000 Data Recovery Plan.

The volunteer program consisted of several components—preparation of a Volunteer Management Plans, included as Appendix 9A; public outreach; and volunteer participation. Jonathan Glenn, of Baker, and Kathy Furgerson of G&O managed the volunteer programs. Volunteer excavations under Baker were conducted on-site for two weeks, including weekends, from August 6 to 19, 2001. During this period, 75 people volunteered for one or more days. Excavations under G&O were conducted for five weeks, including weekends, between October 7 and November 9, 2002. A total of 153 individuals participated during this period, with from one to 20 volunteers per day completing full or half day sessions.

Volunteer participation was limited to fieldwork, which was conducted in Area 3. The field investigations during the two seasons were conducted in the same test unit block and followed the same excavation methodologies. The professional teams responsible for carrying out the Phase III investigations for each season completed the laboratory analysis. Artifacts from the volunteer excavation block were analyzed along with the rest of the Area 2 and Area 3-South collections and utilizing the lab methodologies of those collections.¹ Volunteer program field notes, artifacts, and photographic documentation have been transferred to the State Museum of Pennsylvania for long-term curation.

Document Organization and Contents

This report is organized into six sections. Following this introduction, a discussion of the stratigraphy and context for the volunteer excavation block is presented.

1. Results of the volunteer excavations conducted by Baker and Tetra Tech are also included in the overall Area 3-South data recovery report (Chapter 8) (Anderson et al. 2010).

The information is based on the more extensive data recovered from the professional excavations in nearby Area 3-South. The following two sections present the results of the 2001 and 2002 field seasons, after which the combined results of the two seasons are summarized. The discussion section consists of two subsections. The first presents a summary of the excavation results within the context of research questions posed in the District's Effect Report and Recommended Data Recovery Plan, Site 36AL480, Leetsdale, Allegheny County, Pennsylvania (DRP). That is followed by a discussion and comparison of results between the two excavation areas in Area 3 and interpretive implications. In the final section the results of the volunteer program are summarized.

STRATIGRAPHY AND AB HORIZON DESCRIPTION

All volunteer excavations were conducted within what project geomorphologists identified as an AB horizon. An AB horizon is a transition zone from an A horizon to a B horizon. An A horizon is typically a surface horizon stable enough for biological activity and a mini-ecosystem consisting of plants, insects, animals, or fungus to develop. A horizons tend to be darker and more organically rich, or humic, than underlying soils. Typically B horizon soils are called *subsoils* because they are beneath A horizons. They tend to have less organic material and intrusion than the overlying surface horizon(s) and are the location of mineral and clay accumulation. A horizons affected by plowing are called Ap horizons. On the basis of archaeological excavations, the A (or Ap) horizon in Area 3 was plowed or disturbed during the historic and modern periods. This stratum was removed by hand without screening to reveal the AB horizon, which contained intact archaeological deposits.

The AB horizon in Area 3-South comprised three field designations: F4, F9, and F14. It was designated F14 across the entire volunteer set aside area. The AB horizon was encountered vertically from 0.16 m to 0.42 m below datum across the entire excavation area and ranged in thickness from 7 cm to 36 cm. In texture the AB horizon was a silt loam, and color was described as brown to dark brown (7.5YR 3/4, 7.5YR 4/3, and 7.5YR 4/4).

The AB horizon is associated with the Early Woodland period. That is based on stratigraphic position and temporally diagnostic artifacts. Weed (2002) provides a date range of 1000 B.C. to A.D. 100 for the Early Woodland period. Diagnostic materials found in the AB horizon during Area 3-South data recovery excavations are summarized in Table 9.1.

Radiocarbon dates were also obtained from two key features identified within the Area 3-South AB horizon professional block excavations—Features 238 and 243. The results are provided in Table 9.2.

Diagnostic tools and pottery found at Area 3-South are consistent with assemblages found at other regional Early Woodland period sites. Some of the ¹⁴C dates from Area 3-South are slightly more recent, suggesting that the Early Woodland

continues temporally farther than had been previously thought, although Weed (2002) does point out that the Thorpe site (36AL285) produced a date of 1900 ± 60 B.P.

Table 9.1. Area 3-South AB Horizon Diagnostic Artifacts.

Artifact	Date	Cultural Affiliation
Projectile Points		
Forest-Notched	ca. 1080 to 740 B.C.	Early Woodland (early)
Adena ovate	ca. 455 to 190 B.C.	Early Woodland (late)
Genesee	ca. 1900 to 1060 B.C.	Adena Period (early to middle)
Manker Corner-Notched	ca. 130 B.C. to A.D. 320	Middle Woodland (early)
Pottery		
Half-Moon Cord-marked	ca. 520 to 180 B.C.	Early Woodland (late)
Watson Cord-marked	ca. 180 B.C. to A.D. 530	Early Woodland (late) to Middle Woodland *
Adena Plain	ca. 645 B.C. to A.D. 150	Early Woodland
McKees Rocks Plain	no direct dates	Early Woodland

* The morphology of these specimens suggests an Early Woodland position in the development of Watson ware.

Table 9.2. Selected Area 3-South AB Horizon ^{14}C Dates.

Feature/Sample Number	Conventional ^{14}C Date	Calibrated Date
238 / Beta-176120	1860 ± 40 B.P.	A.D. 70 to 240
243, Level 1 / Beta-182457	1860 ± 70 B.P.	A.D. 5 to 340
243, Level 2 / Beta-182458	1760 ± 60 B.P.	A.D. 120 to 415
243, Level 3 / Beta-182459	1890 ± 40 B.P.	A.D. 40 to 230

RESULTS OF THE 2001 FIELD SEASON

Methods

Outreach

Volunteers were solicited through three main avenues—the media, postings at universities, and contacting local amateur archaeology groups. Volunteer opportunities at the Leetsdale site were announced in an article in the *Beaver County Times* on Sunday, August 5, 2001. There was also a segment on WTAE TV, Channel 4 on Tuesday, August 7, 2001. In July 2001, fliers were distributed and posted at three area universities—University of Pittsburgh, Indiana University of Pennsylvania, and California University of Pennsylvania. Announcements were made at both the Allegheny and Ohio Valley Chapters of the Society of Pennsylvania Archaeology monthly meetings. In addition, the Greater Pittsburgh Council of the Boy Scouts of America was contacted to discuss possibilities of a site tour fulfilling requirements for a Cub Scout Archaeology

Badge. That was done in an effort to involve school-age children in the volunteer program. Coordination and participation of school groups was not possible because work was carried out outside of the normal school year. A volunteer day for district employees had also been envisaged at project start but not held as part of the Area 3-South data recovery project. Ultimately, 96 people expressed interest in volunteering, and 75 people volunteered for one or more days. Of the 75 people who volunteered, 15 were District employees.

Site Preparation

The volunteer area, to the north of the main excavation block (Figure 9.3), was prepared along with the rest of Area 3 between June 11 and June 15, 2001. The surficial layer of historic period overburden fill (roughly 2 feet) was removed using mechanical excavation equipment consisting of a tracked excavator with a smooth-edged bucket, a front-end loader, and a bulldozer. All removal of the fill was monitored by archaeological staff, with mechanical removal being halted within 5 cm to 10 cm of the underlying deposits. That 5 cm to 10 cm was removed by hand without screening using a shovel to protect strata potentially bearing important cultural materials from damage by mechanical excavators. The hand removal of this layer occurred on July 12, 2001. Work was carried out by professional archaeologists working on the data recovery project. Two 3-m x 5-m blocks were prepared for volunteer excavations. The blocks were between N95 and N99, E215 to E222 and separated from the main excavation block (and all associated expansion units) by a minimum of 9 m.

Volunteer Excavations

Volunteer excavations were carried out under the supervision of Jonathan Glenn who served as the Volunteer Program Manager. He was assisted in the field by professional archaeologists to ensure adequate professional oversight of volunteer activities. The ratio of professionals to volunteers was no more than 1 to 6 at any given time. These excavations occurred over a 2-week period from August 6 to 19, 2001. Volunteer work conducted under the contract was limited to the AB horizon (or F14), which contained Early Woodland component artifacts.

Volunteer block hand excavations were conducted in a basic excavation unit of 1 m² in size identified by unique coordinates at the southwest corner of the unit. Coordinates were based on distance and direction from the District's previously established datum. In general, 1-m² excavation units were hand-excavated in arbitrary 10-cm (3.9-in) levels within defined natural strata. Hand excavation was accomplished through a combination of flat shovel skimming and trowel excavation. Excavated materials were placed into 5-gal buckets at the unit and taken to another location where they were screened through 6.4-mm (0.25-in) hardware cloth to maximize artifact recovery. Each excavation team consisted of two or three people. The team was assigned to a specific 1-m² unit that was identified by coordinates as described above. Each team was also assigned a unique alphabetical designation, which was placed on the team buckets to eliminate any confusion during the screening process. Team members took turns excavating and screening. Volunteer excavations were documented using standardized forms that are exactly the same as those used for professional excavations.

Vertical and Horizontal Control

All horizontal control for volunteer excavations was tied into the existing site grid oriented to true north and established during earlier phases of investigation at the site. Vertical control was maintained relative to elevation above National Geodetic Vertical Datum (NGVD), on the basis of data provided by the District for permanent datum points established on the site during earlier investigations.

In the field, a Nikon D50, and later a Nikon DTM-380, Digital Total Station was used to record all excavation level measurements and three-dimensional location data for piece-plotted artifacts. That allowed for the precise recording of excavation depths and artifact locations, and the information was immediately available to the excavators for recording on field forms.

Information in the Total Station's data collector was checked against the paper excavation forms to ensure accuracy in the coding and designations used in the Total Station and to eliminate data entry errors. Further, the backsight and level of the Total Station instrument were checked throughout the daily course of excavation to ensure that the instrument had not been knocked out of alignment. If the instrument was out-of-level or out-of-alignment, the instrument level and orientation were reestablished and data recorded since the previous instrument check was verified as applicable.

Documentation

As described above, all excavations were conducted in 1-m² excavation units with soil removed by arbitrary levels in defined natural strata. For each arbitrary level excavated, a standardized Excavation Level Form was completed. The forms recorded such information as unit coordinates, stratum being excavated, arbitrary level within that stratum, opening and closing elevations, method of excavation, type of screening used, and cultural materials recovered.

Artifact Tracking System

A central computerized tracking system was used in the field to record volunteer excavation artifact recovery and to monitor the location of artifact bags and samples. The system, also used for the main 200-m² block, relied on assigning unique field specimen (FS) numbers in the field to any collected artifacts. The FS number, assigned at the level of individual artifact bag, was based on the smallest provenience designation. Following completion of excavation of a particular provenience unit predetermined artifact classifications (for example, lithic debitage, fire-cracked rock (FCR), ceramics, projectile point/knife [pp/k] fragments, bifaces, other tools, and such) were counted and bagged separately. Each bag was then assigned a unique FS number, which was written on the artifact bag tag and any accompanying forms and unit summary sheets. A unique record for each bag was then entered into the computerized database, including the FS number, provenience information, and the counts of the various artifact categories. These FS numbers were then collapsed later, for curation, into catalog numbers which were provenience based.

In addition to providing rapid field counts, this system allowed each individual artifact bag to be tracked through processing and analysis. During each stage (washing, cataloging, numbering, photographing, for example), the individual FS number data record was updated to reflect the appropriate activity, including the date of processing and individual responsible. Thus, at any time, it was possible to know the location and status of any bag of artifacts or sample collected.

This computerized FS log was uploaded daily to a central server, and each day's entries were maintained as an archival copy on both the server system and CD ROM. The database also was maintained on the field computer hard drive. That ensured that even if one system failed, at least three copies of the database still existed.

Artifact Processing and Analysis

Artifacts and collected samples were transferred to the lab from the field daily, and all information on the artifact bags or tags or both was checked against the information entered in the computerized field specimen log received along with the artifacts. Any data entry errors made in the field were corrected at this time and reported back to the field lab manager who was responsible for the field specimen log. Any discrepancies were checked against the paper field forms as well. The computerized FS log essentially served as the initial foundation for the Microsoft *Access* database that was used during the analysis stages of the project. Provenience data, the date, excavators' initials, bag numbers, and field artifact counts were entered into the database in the field. As formal laboratory processing and analysis was completed, additional information and clarification was added to each entry that was created in the field.

Processing of the artifacts consisted of them being gently washed, allowed to dry, and placed into archivally stable, 4-mm thick, zip-closure plastic bags. Items were then initially sorted according to artifact category (debitage, tool, ceramic, and such) and then provenience information was transferred to the exterior of each bag. In addition, acid-free paper tags bearing the same provenience information were placed into each bag. Proveniences were then assigned unique catalog numbers, and each bag, tag, and individual artifacts one inch or greater in size were then marked with the site number and the unique Catalog Number. All materials were processed and packaged in accordance with curation guidelines in *Cultural Resource Management in Pennsylvania: Guidelines for Archaeological Investigations* (Bureau for Historic Preservation 2001) and *Revised Curation Guidelines* (Warfel 2002).

As discussed, analysis began with sorting of materials by artifact provenience and category. Artifacts were then counted by these divisions and distributed to each of the specialty analysts. Analysis results were recorded using paper analysis forms developed by each analyst, or were entered directly into computerized analysis entry forms created in the project database. All artifact information was entered into an *Access 2000* database. For analytical methods associated with specialized studies, see the Area 3-South report (Chapter 8), Section B, Methodology.

Results

Overview

Volunteer excavations were conducted between August 6 and 19, 2001. Work was carried out in a single excavation block measuring 3-m x 5-m in size. The block was in Area 3, to the north of the main Area 3-South data recovery block, and the southwest corner coordinates were N95 E 220 (see Figure 9.3). All volunteer excavations were carried out within a single stratum, the AB horizon, designated F14 during fieldwork. The total number of artifacts recovered during volunteer excavation was 1,464. No features were identified. Unit location, depth, and artifact recovery by level for each 1 m² within the volunteer block is summarized in Table 9.3.

Artifact Recovery and Analysis

This section describes finds associated with volunteer excavations that were conducted as part of the Area 3-South data recovery project. Volunteer excavations produced a total of 1,464 artifacts consisting of both prehistoric and historic materials as summarized in Table 9.4.

Table 9.3. Volunteer Excavation Units, Depth, and Artifact Recovery.

Coordinates	Level (F14/AB)	Catalog Number	Depth (m below NGVD)	Total Artifacts
N 95 E 220	1	1872	214.85 – 214.76	32
N 95 E 221	1	1873	214.86 – 214.75	41
N 95 E 221	2	2048	241.75 –	47
N 95 E 222	1	1874	214.86 – 214.77	39
N 95 E 222	2	2049	214.77 – 214.65	117
N 96 E 220	1	1875	214.83 – 214.72	70
N 96 E 220	2	2050	214.77 –	24
N 96 E 221	1	1876	214.86 – 214.74	57
N 96 E 222	1	1877	214.87 – 214.76	34
N 96 E 222	2	1878	214.76 – 214.66	57
N 97 E 220	1	2051	214.85 – 214.73	51
N 97 E 220	2	2051	214.73 – 214.63	93
N 97 E 221	1	1879	214.88 – 214.77	46
N 97 E 221	2	2052	214.77 –	9
N 97 E 222	1	1880	214.90 – 214.79	28
N 97 E 222	2	2053	214.79 –	72
N 98 E 220	1	1881	214.87 – 214.73	44
N 98 E 220	2	2054	214.73 – 214.63	99
N 98 E 221	1	1882	214.87 – 214.72	47
N 98 E 221	2	2055	214.72 – 214.62	76
N 98 E 222	1	1883	214.91 – 214.81	22
N 98 E 222	2	2056	214.81 – 214.69	54
N 99 E 220	1	1884	214.82 – 214.72	34
N 99 E 220	2	2057	214.72 – 214.62	63
N 99 E 221	1	1885	214.87 – 214.76	47

Table 9.3 (continued). Volunteer Excavation Units, Depth, and Artifact Recovery.

Coordinates	Level (F14/AB)	Catalog Number	Depth (m below NGVD)	Total Artifacts
N 99 E 221	2	2058	214.76 – 214.66	76
N 99 E 222	1	1886	214.90 – 214.80	46
N 99 E 222	2	2059	214.80 – 214.70	39
Total				1,464

Note: Level excavations were not completed in those units lacking closing elevations; Catalog Number 2051 was erroneously assigned to two proveniences in advance of curation.

Table 9.4. Volunteer Block Artifact Recovery.

Artifact	Quantity
Prehistoric	
Flaked stone tools	
Projectile points/knives	3
Bifaces	2
Expedient tools	1
Cores	9
Debitage	1,025
Other stone	3
Fire-cracked rock	389
Ceramics	19
Historic	
Slag	1
Coal	2
Brick	2
Ceramics	4
Glass	4
Total	1,464

Prehistoric Artifacts

Prehistoric artifact recovery totals 1,451 items, including flaked stone tools, debitage, unmodified pebbles, FCR, and pottery. Prehistoric artifact recovery is summarized in Table 9.5.

Table 9.5. Prehistoric Artifact Recovery.

Prehistoric Artifact Type	Count
Flaked stone tools	
Projectile points/knives	3
Bifaces	2
Expedient tools	1
Cores	9
Debitage	1,025
Other stone	3
Fire-cracked rock	389
Ceramics	19
Total	1,451

Flaked Stone Tools

Flaked stone tools or tool fragments total 15, consisting of projectile points/knives (pp/ks) ($n=3$), bifaces ($n=2$), expedient tools ($n=1$), and cores ($n=9$). The distribution of flaked stone tools across the block and by level is provided in Figure 9.4. Note that the pp/ks, bifaces, and expedient tool were found in an arc across the north and east portions of the block.

Projectile Points/Knives

Three pp/k fragments were found during volunteer excavations. All three were found in the same unit, N99 E 220. One was recovered from Level 1 (Catalog No. 1884; 214.82 m to 214.72 m below datum), and two were found in Level 2 (Catalog No. 2057; 214.72 m to 214.62 m below datum). All three are base fragments, one is from a Forest-Notched pp/k (ca. 1080 to 740 B.C.); the others lack diagnostic characteristics needed to confidently assign them to a known type.

Catalog No. 1884 is Upper Mercer chert. It weighs only 0.5 g and exhibits no signs of thermal alteration. The other two pp/k fragments are Onondaga chert. The Forest notched base fragment weighs 1.3 g. The stem is 10 mm wide, and the base is 16.6 mm wide. There are no signs of thermal alteration. The unidentified base from Level 2 is thermally altered and weighs 1.2 g. Because these are all base fragments, they were not subject to microwear analyses.

Bifaces

Two bifaces were found in the volunteer block—a whole biface from N97 E222 Level 2 (Catalog No. 2053) and a distal fragment found in N98 E 21 Level 2 (Catalog No. 2055). Both are Onondaga chert, and neither appears to be thermally altered.

Catalog No. 2053 is a Stage 2 biface retaining a small amount of cortex. It measures 47.8 mm long, 38.6 mm wide, and 25.1 mm thick, and weighs 32.5 g. Bipolar reduction techniques were used. Catalog No. 2055 is a Stage 3 distal fragment. It measures 10 mm long, 15 mm wide, and 6 mm thick, and weighs 0.7 g. Both biface fragments were subject to microwear analysis and display signs of being used on a moderately hard substance; however, it is unclear as to whether this apparent use is associated with the manufacturing process (edge or platform preparation) or actual use.

Expedient Tools

One expedient tool was found during volunteer excavations. It was found in N99 E222 Level 1 (Catalog No. 1886). It is Onondaga chert and exhibits signs of use and wear on multiple edges. It measures 33.2 mm long, 18.6 mm wide, 8.9 mm thick, and weighs 5 g. Some cortex is present and it appears to be thermally altered. Unifacial retouch is apparent on the lateral edge.

Cores

Nine cores or core fragments were found in the volunteer block. Six were found in Level 1, and three were found in Level 2. All the cores and core fragments from this

horizon are Onondaga chert and appear to have originated as cobbles from the Ohio River, rather than tabular sources from bedrock outcroppings. The recovered core and core fragments fall into several categories by type, including one bipolar core fragment, four spheroid cores, two bipolar spheroid cores, and two split piece cores. All were spent except Catalog No. 2054. Metric data are summarized in Table 9.6.

Table 9.6. AB Horizon Cores—Catalog Numbers and Descriptive Data.

Unit / Level	Catalog Number	Core Type	Length (mm)	Width (mm)	Thickness (mm)	Flake Scars	Percent Cortex	Weight (g)
N 95 E 220 Level 1	1872	Spheroid Core/Bipolar	20	8.5	6.5	7	1%-49%	1.16
N 95 E 221 Level 1	1873	Split Piece	20	13	9	4	1%-49%	2.31
N 96 E 220 Level 1	1875	Spheroid Core	23	11	10	3	0%	2.71
N 96 E 222 Level 2	1878	Spheroid Core	26	20.5	7	14	50%-99%	4.01
N 96 E 222 Level 2	1878	Split Piece	35	36.5	20	3	50%-99%	27.67
N 98 E 221 Level 1	1882	Spheroid Core/Bipolar	16.5	8.5	4	5	0%	0.61
N 99 E 221 Level 1	1885	Spheroid Core	26.5	21	16	8	1%-49%	8.4
N 99 E 221 Level 1	1885	Spheroid Core	17	10	12.5	9	0%	2.04
N 98 E 220 Level 2	2054	Bipolar Core fragment	25.8	30.2	7.8	7	1%-49%	4.56

Bipolar cores have a platform at both ends and were set on an anvil and struck on the opposite end by a percussor, and battering or crushing might be evident on either or both ends. Spheroid cores are roughly globular with numerous flakes scars on all sides; typically an exhausted core resulting from flake production. Split pieces are cobbles split along the long axis in the widest plane to create two long spalls. Typically, they exhibit battering or crushing on one end resulting from the preparation process, with no other modification evident.

Debitage

Debitage recovery in the volunteer block totaled 1,025 pieces with a combined total weight of 551.2 g. The distribution ofdebitage across the volunteer block is presented in Table 9.7 and Figure 9.5. Debitage recovery includes 283 whole flakes, 225 proximal fragments, nine bipolar flakes, and 508 flakes fragments and shatter. With respect to size grades established using nested screens with decreasing mesh openings, 345 pieces ofdebitage are smaller than 0.25-in mesh (total combined weight 43.4 g), 650 pieces are between 0.25 and 0.5 in (total weight 312.10 g), 28 pieces are between 0.5 and 1 inch (135.5 g in weight) and two are between 1 and 2 inches in size (32.5 g total). Of the 1,025 pieces ofdebitage collected, 1,022 are Onondaga chert, and three are Upper Mercer chert. Cortex is present on 256 pieces ofdebitage. All thedebitage appears to

have been derived from locally available cobble cores. Thermal alteration is apparent on 196 pieces.

With respect to distribution across the volunteer block, debitage counts by unit and level are provided in Table 9.7.

All the whole flakes and proximal flake fragments ($n=508$) from the volunteer block were examined in detail. Data were collected on flake reduction stage (primary, secondary, or tertiary), presence of bulb of percussion, and platform characteristics. Table 9.8 lists their division by reduction stage. Secondary reduction is the most prevalent (63.58 percent), but reduction of cobbles could preclude production of a large number of primary flakes simply because of the nature and size of the raw material.

Table 9.7. Volunteer Block Debitage Recovery.

Unit	Level 1	Level 2	Total
N 95 E 220	17	0	17
N 95 E 221	22	29	51
N 95 E 222	26	90	116
N 96 E 220	52	20	72
N 96 E 221	30	0	30
N 96 E 222	21	41	62
N 97 E 220	33	76	109
N 97 E 221	25	3	28
N 97 E 222	14	56	70
N 98 E 220	35	79	114
N 98 E 221	31	53	84
N 98 E 222	16	45	61
N 99 E 220	22	52	74
N 99 E 221	27	62	89
N 99 E 222	16	32	48
Total	395	630	1,025

Table 9.8. Volunteer Block Whole and Proximal Flake Reduction Stages.

Reduction Stage	Count	Percent
Primary	107	21.06%
Secondary	323	63.58%
Tertiary	75	14.76%
Indeterminate	3	0.59%
Total	508	100%

Data were collected on platform shape, angle, and thickness for all whole flakes and proximal flake fragments. Platform shapes were identified as flat, lipped, cortical, or faceted. Of the 508 whole and proximal flake fragments examined, there is an almost even division among flat (28.15 percent), lipped (23.23 percent), faceted (33.46 percent)

and cortical (14.96 percent) platform types, to suggest that both soft and hard percussors were used to reduce cores and shape bifaces. Slightly over three-quarters of the flakes (78.3 percent, $n=398$) exhibit a bulb of percussion, to indicate a hard hammer technique was used to remove flakes from cores and in biface manufacture. Results for platform angles are shown in Table 9.9.

Table 9.9. Volunteer Block Platform Angles for Whole Flakes and Proximal Fragments.

Platform Angle	Count	Percent
0-4°	0	0.00%
5-9°	0	0.00%
10-14°	1	0.20%
15-19°	0	0.00%
20-24°	2	0.39%
25-29°	2	0.39%
30-34°	13	2.56%
35-39°	9	1.77%
40-44°	26	5.12%
45-49°	8	1.57%
50-54°	48	9.45%
55-59°	13	2.56%
60-64°	58	11.42%
65-69°	24	4.72%
70-74°	81	15.94%
75-79°	51	10.04%
80-84°	58	11.42%
85-89°	29	5.71%
> 90°	14	2.76%
Indeterminate	71	13.98%
Total	508	100%

Analysis of the lithic assemblage indicates that the entire sequence of reduction technology took place in the location of the volunteer block during the Early Woodland period utilization of the site. Cores, primary, secondary, and tertiary stage flakes, and finished bifaces and pp/ks were recovered from this occupation period. Two bipolar cores and nine bipolar flakes were found indicating that technique of lithic reduction was used along with the direct percussion. Groundstone tools like anvils and hammerstones, considered to provide evidence for the use of the bipolar cobble reduction techniques were absent from this portion of the site.

Other Stone

Other stone artifacts found in the volunteer block are limited to two unmodified quartzite pebbles found in N 98 E 220 Level 1 (Catalog No. 1881) and an additional unmodified sandstone pebble found in N 97 E 220 Level 2 (Catalog No. 2051). These items are potentially manuports because of the general lack of natural rock apparent in

the AB horizon. Their function is unknown. Metric data for each are presented in Table 9.10.

Table 9.10. Volunteer Block Other Stone Artifacts.

Catalog Number	Artifact	Portion	Material	Length (mm)	Width (mm)	Thickness (mm)	Weight (g)
1881	Unmodified Pebble	Whole	Quartzite	58	38	26.7	77.8
1881	Unmodified Pebble	Whole	Quartzite	43.2	41.2	24.8	57.3
2051	Unmodified Pebble	Whole	Sandstone	44.7	35.7	24.6	53.7

Fire-Cracked Rock

Fire-cracked rock (FCR) recovered from volunteer blocks totaled 389 pieces the combined weight of which was 16.46 kg. It was recovered from each of the excavation units and from both Levels 1 and 2. FCR recovery is summarized in Table 9.11. The distribution of FCR across the volunteer block is presented in Figures 9.6 and 9.7.

Table 9.11. Volunteer Block Fire-Cracked Rock Recovery.

Catalog Number	Unit Location	Level	Weight (g)	Count
1872	N 95 E 220	1	667.80	13
1873	N 95 E 221	1	1359.20	18
1874	N 95 E 222	1	639.10	12
1875	N 96 E 220	1	465.10	16
1876	N 96 E 221	1	915.90	27
1877	N 96 E 222	1	613.10	10
1878	N 96 E 222	2	811.50	18
1879	N 97 E 221	1	719.20	20
1880	N 97 E 222	1	475.60	14
1881	N 98 E 220	1	244.70	6
1882	N 98 E 221	1	688.80	12
1883	N 98 E 222	1	440.30	6
1884	N 99 E 220	1	1079.80	11
1885	N 99 E 221	1	343.40	18
1886	N 99 E 222	1	515.20	27
2048	N 95 E 221	2	902.00	17
2049	N 95 E 222	2	855.70	22
2050	N 96 E 220	2	139.60	4
2051	N 97 E 220	1	314.50	12
2051	N 97 E 220	2	524.50	15
2052	N 97 E 221	2	204.30	4
2053	N 97 E 222	2	760.80	14
2054	N 98 E 220	2	438.90	17
2055	N 98 E 221	2	809.00	21
2056	N 98 E 222	2	214.30	7
2057	N 99 E 220	2	448.50	9
2058	N 99 E 221	2	469.80	12
2059	N 99 E 222	2	400.20	7
Total			16,460.80	389

Ceramics

The Area 3 volunteer block produced 19 prehistoric ceramic sherds (Table 9.12). Ceramics were analyzed on the basis of physical attributes such as temper, surface treatment or appearance, dimensions, weight, vessel segment represented, decoration. These attributes are useful in identifying ceramic types, vessel forms, and manufacturing techniques; and linking the ceramics to cultural traditions and time periods. The distribution of ceramic artifacts is shown in Figure 9.8.

Table 9.12. Volunteer Block Prehistoric Ceramics.

Unit and Level Catalog Number	Portion Temper	Surface Treatment	Weight (g)	Count
N 96 E 220 Level 1 Catalog No. 1875	Body Various Combinations of Shale, Siltstone, Claystone, Hematite, and Ironstone	Smooth exterior Eroded interior	3.8	1
N 96 E 222 Level 1 Catalog No. 1877	Body Chert and Mixed Chert and Hematite	Cord-marked exterior Smooth interior	9.1	2
N 96 E 222 Level 2 Catalog No. 1878	Body Chert and Mixed Chert and Hematite	Cord-marked exterior Smooth interior	7.4	1
N 96 E 222 Level 2 Catalog No. 1878	Spalled/Eroded Various Combinations of Shale, Siltstone, Claystone, Hematite, and Ironstone	Eroded exterior Eroded interior	0.6	1
N 98 E 220 Level 1 Catalog No. 1881	Body Various Combinations of Shale, Siltstone, Claystone, Hematite, and Ironstone	Smooth exterior Smooth interior	1.6	1
N 99 E 222 Level 1 Catalog No. 1886	Body Various Combinations of Shale, Siltstone, Claystone, Hematite, and Ironstone	Cord-marked exterior Smooth interior	14.6	1
N 95 E 221 Level 2 Catalog No. 2048	Body Limestone and Mixed Limestone and Hematite or Ironstone	Cord-marked exterior Smooth interior	1.8	1

Table 9.12 (continued). Volunteer Block Prehistoric Ceramics

Unit and Level Catalog Number	Portion Temper	Surface Treatment	Weight (g)	Count
N 95 E 222 Level 2 Catalog No. 2049	Body Chert and Mixed Chert and Hematite	Cord-marked exterior Eroded interior	2.1	1
N 95 E 222 Level 2 Catalog No. 2049	Spalled/Eroded Chert and Mixed Chert and Hematite	Eroded exterior Smooth interior	6.2	1
N 95 E 222 Level 2 Catalog No. 2049	Body Mixed Chert, Siltstone or Claystone, and Hematite	Cord-marked exterior Smooth interior	3.6	1
N 95 E 222 Level 2 Catalog No. 2049	Body Mixed Hematite and/or Ironstone	Smoothed over cord- marked exterior Smooth interior	8.6	1
N 95 E 222 Level 2 Catalog No. 2049	Spalled/Eroded Various Combinations of Quartz, Quartz Gravel, Hematite, and Ironstone	Eroded exterior Smooth interior	3.4	1
N 97 E220 Level 2 Catalog No. 2051	Body Various Combinations of Shale, Siltstone, Claystone, Hematite, and Ironstone	Smooth exterior Eroded interior	2.6	1
N 97 E 222 Level 2 Catalog No. 2053	Body Chert and Mixed Chert and Hematite	Smooth exterior Smoothed over cord- marked interior	9.2	1
N 98 E 220 Level 2 2054	Spalled/Eroded Mixed Hematite and/or Ironstone	Eroded exterior Cord-marked interior	1.1	1
N 98 E 220 Level 2 Catalog No. 2054	Spalled/Eroded Various Combinations of Quartz, Quartz Gravel, Hematite, and Ironstone	Eroded exterior Eroded interior	1	1
N 98 E 221 Level 2 Catalog No. 2055	Spalled/Eroded Mixed Hematite and/or Ironstone	Eroded exterior Smooth interior	3.3	1
N 99 E 221 Level 2 Catalog No. 2058	Body Various Combinations of Shale, Siltstone, Claystone, Hematite, and Ironstone	Cord-marked exterior Smooth interior	11.6	1
Total			91.6	19

Among the sherds that are not too eroded or spalled, exterior surface treatment include smoothed, cord-marked, and smoothed over cord marked. Smooth and smoothed over cord marked interiors are observed. Six temper varieties are present. The chert, mixed chert, and hematite-tempered sherds were most numerous ($n=6$) and were all found in the eastern portion of the block from N95 to N97 of the E222 transect. Five sherds were found with the temper type various combinations of shale, siltstone, claystone, hematite, and ironstone.

On the basis of the observed attributes, diagnostic materials recovered from the volunteer block include three chert and mixed chert and hematite-tempered cord-marked sherds (Catalog Nos. 1877 and 1878) that conform to Mayer-Oakes' (1955:184, 189) chert-tempered variant of his early Early Woodland Half-Moon Cord-Marked type; and one limestone and mixed limestone and hematite-tempered cord-marked sherd (Catalog No. 2048) attributable to the Watson Cord-Marked type (Mayer-Oakes 1954:16, 1955:193-195).

Little could be gleaned from the assemblage with respect to vessel forms present on-site. No rim sherds were recovered, and no diagnostic initial and early Early Woodland appliqué lugs or flat basal sherds were documented. One mixed siltstone and hematite-tempered cord-marked sherd (Catalog No. 2058), however, did exhibit a flange or heel along the juncture between the vessel wall and the outer edge of a flat base. Flat, circular bases are considered to be a diagnostic characteristic of early Half-Moon Cord-Marked ceramics in the lower Upper Ohio Valley (Mayer-Oakes 1955:189).

Historic Artifacts

Thirteen historic artifacts were found during the volunteer excavations. Those include industrial and architectural materials and kitchenware. Provenience and descriptive data are presented in Table 9.13.

Table 9.13. Volunteer Block Historic Artifacts.

Catalog No.	Unit	Level	Artifact	Description	Count
1871	N 95 E 220	1	Slag, glass		1
1874	N 95 E 222	2	Slag, glass		1
1877	N 96 E 222	1	Brick	Fragment, common	1
1879	N 97 E 221	1	Stoneware	Grey-bodied	1
2052	N 97 E 221	2	Refined Earthenware	Rockingham	2
1882	N 98 E 221	1	Brick	Fragment, common	1
1882	N 98 E 221	1	Stoneware	Grey-bodied	1
1882	N 98 E 221	1	Coal		1
2056	N 98 E 222	2	Glass	Wine bottle	1
2056	N 98 E 222	2	Slag, iron	Miscellaneous	1
2058	N 99 E 221	2	Coal		1
1886	N 99 E 222	1	Glass	Unidentified bottle	1
Total					13

Industrial and architectural materials include slag ($n=3$), coal ($n=2$), and brick ($n=2$). The glass slag ($n=2$) is olive in color. The brick fragments are unglazed coarse red earthenware. The kitchenwares include ceramics ($n=4$) and glass ($n=2$). Two of the ceramic sherds are Rockinghamware, which date from 1845 to ca. 1900 (South 1977).

The two fragments most likely belonged to a utilitarian beverage container, probably a pitcher; one fragment retains the base of a broken off handle, and the sherds are quite thick and curved. Both pieces of stoneware are grey bodied body sherds; one (Catalog No. 1879) is a very small fragment with very dark greyish-brown paste. The exterior glaze is light buff to grey and the interior is black. The other stoneware sherd is undecorated. The two pieces of glass are bottle fragments, one is olive (Catalog No. 2056) and the other is colorless.

RESULTS OF THE 2002 FIELD SEASON

Methods

Field Investigations

The second session of volunteer field excavations was conducted in October and November 2002 in conjunction with the Area 2 excavations, under the supervision of Kathy Furgerson, Volunteer Program Manager. Work in the volunteer block began by removing the backfilled soils from the 2001 field season excavations. The fill and the plowzone were removed from the 2-m-wide strip between the two 3-m x 5-m blocks to create a single 5-m x 8-m excavation area (see Figure 9.1). Excavation was conducted in 1-m x 1-m units and 10-cm levels. The number of levels completed in each test unit varied across the area. A total of three levels were removed from the eastern half of the block, whereas up to two levels were removed from the west.

Methods in the volunteer block generally followed those of the Area 2 excavations. Soil was screened through 1/4-in mesh and the residue examined for artifacts. Data on soil color, textures, and disturbance, if any, were recorded on test unit level forms. The forms also included reference data for photographs, features, profiles, and samples (e.g., radiocarbon, flotation). In addition, detailed narrative notes concerning the excavations (e.g., methods, field conditions, in-field analysis and interpretation) were made in supervisory staff notebooks.

Site mapping and elevations were completed with the use of a Total Station surveying instrument. Horizontal provenience utilized the established site-wide coordinate system. Elevations were tied into a benchmark and recorded in National Geodetic Vertical Datum (NGVD).

Plan maps of excavation floors were drawn to scale where features, FCR, or charcoal were present. No cultural features were identified and no radiocarbon dates were obtained.

Artifacts recovered in the field were returned to KCI's laboratory for processing. FCR was counted and weighed. A 5-percent sample of FCR was collected and removed to the laboratory for analysis. The remainder of the FCR was discarded in the field.

Laboratory and Data Analysis

Artifacts were catalogued in KCI's laboratory following the methods defined for the Area 2 excavations. Lithic artifacts were cataloged by number, artifact type, and raw material type. Additional characteristics recorded for debitage include type of cortex (pebble vs. nodular), weight, and evidence of heat treatment. Lithic raw material was categorized according to types commonly found on sites in western Pennsylvania. Material types were identified on the basis of macroscopic characteristics and included western Pennsylvania cherts, such as Brush Creek and Uniontown cherts; material from the Ohio region, such as Upper Mercer and Vanport (Flint Ridge) cherts; and exotic materials, such as rhyolite and jasper.

Lithic debitage (i.e., detritus from the manufacture or resharpening of stone tools) included flakes with characteristics such as the presence of a striking platform, bulb of percussion, smooth ventral surface with ripple marks, and a general curved shape with the concave part of the curve on the ventral side. Flakes with no platform or bulb of percussion were classified as flake fragments. Flakes with platforms and bulbs were classified into reduction stages on the basis of attributes, including size and thickness, general angle of a striking platform, the presence or absence of cortex, and the presence or absence of negative flake scars on the ventral surface (Magne 1989).² Platform angle varies with degree of reduction, becoming steeper in the later stages (Dibble and Whittaker 1981). For this project, platform angles were not measured, but the general angle was considered along with other flake characteristics. Dorsal scar count increases through the reduction process and the amount of cortex decreases (Magne 1989). The presence of two or more dorsal flake scars indicated that previous flake removals had occurred, and such flakes were classified as middle or late stage. Although estimates of the amounts of cortex can be subjective, the classification method required distinguishing only between more or less than 50 percent, so any subjective error was minimized.

The lithic debitage was classified by reduction sequence using the following definitions:

- *Early-stage reduction flakes* are produced during the beginning stages of the reduction process. Early reduction flakes are defined as having cortex on more than half of the dorsal surface with a platform angle of approximately 90 degrees. The flakes are characteristically thicker (>3 mm) and larger than the rest of the assemblage.
- *Middle-stage reduction flakes* are defined as having platforms with angles between 30 and 60 degrees and two or more negative flake scars on the dorsal side. Cortex may be present, but if so, covers less than 50 percent of the dorsal surface.
- *Late-stage reduction flakes* are the result of the final stages in the bifacial thinning process to obtain a preform or biface. Late-stage flakes have lipped platforms with angles of approximately 30 degrees and negative scars on the

2. These attributes were observed in assigning each flake to a debitage category, but attributes were not individually recorded.

dorsal surface. The flakes are small and thin (generally >2 mm). No cortex is present.

- *Flake fragments* are defined as medial, marginal, and distal sections of flakes with no platforms or bulbs of percussion.
- *Shatter* is a category that includes artifacts in the assemblage that cannot be classified by reduction sequence or as a flake fragment, such as blocky fragments with multiple broken surfaces.

Debitage was weighed by category and lithic material (e.g., Brush Creek chert early-stage reduction flakes, Onondaga chert flake fragments). Flakes were not individually weighed.

Other flake types that occurred in the lithic assemblage from Area 2 included bipolar flakes, which show evidence of crushing from pressure at both ends, as well as prismatic flakes and blades. Microflakes (microdebitage) are broken flakes or shatter fragments without identifiable platforms or other defining characteristics. They are usually less than 2 mm in size and are recovered from flotation samples.

Core reduction was recognized by cores and flake tools, such as utilized and retouched flakes. Cores and core fragments were classified according to type. Cores with minor reduction are blocks or cobbles with one or more striking surface and more than one flake scar on the exterior. Cortex may be present. Cores with more reduction are blocks or cobbles with multidirectional or unidirectional flake scars on most of the exterior and one or more striking surface. Bipolar cores are usually small, sometimes have two platforms (striking surfaces) at opposite ends, and crushing and battering on either of the platforms. Blade cores have flakes removed only from one direction (unidirectional) and parallel to one another. They usually have one platform (striking surface). Wasted cores are lithic material that appears to have reached the end of the reduction process due to size, failure, or material quality. Unmodified blocks, cobbles, or nodules suitable for knapping are classified as raw material. Tested cobbles have at least one freehand flake scar on the surface.

Unfinished bifaces resulting from the biface-reduction process were also identified. The length, width, and thickness of entire bifaces (and biface fragments that retain their maximum dimensions) were measured. Whole, unfinished bifaces were categorized according to early-, middle-, or late-stage reduction. Early-stage bifaces are thick and may still have cortex; flake scars from early-stage flakes are present, generally occurring along the edges. Middle-stage bifaces have been thinned, and flakes have been removed to the center of the piece. Cortex has been removed. Late-stage bifaces have been reduced to preforms and retain none of the surface of the original blank. The outline of the biface is complete and the biface is flat in cross-section. Broken bifaces are classified as biface fragments.

The Lithic Analyst analyzed stone tools and classified them according to functional type and lithic material. Formal chipped stone tool types include drills, a

variety of scrapers, spokeshaves, knives, and graters. The classification of specific tools was modified as needed based on use-wear analysis. Where possible, finished bifaces were identified according to stylistic type using sources such as Ritchie (1971), Justice (1987), and Broyles (1971). Measurements of characteristics within side-notched and stemmed types—such as length, width, thickness, basal grinding, and base and blade shape—were performed to determine whether these morphological characteristics changed consistently over time.

Retouched and utilized flakes represent expedient flake tools. Retouched flakes show evidence of flakes removed to modify one or more edges. Utilized flakes display microscars, polish, and/or abrasions resulting from use. Evidence of use was also noted for retouched flakes. A sample of utilized flakes was examined under high-power magnification to confirm the presence of microwear traces.

Groundstone tools with little modification were examined to identify the type and location of wear traces. Tools indicating use on hard materials, such as lithics (e.g., hammerstones and anvils), were distinguished from tools exhibiting evidence of grinding or cracking softer materials (e.g., mullers and pitted stones). Expedient tools, such as teshoas, net weights, and choppers, were identified based on form and use marks or wear.

Prehistoric ceramics were identified according to temper and surface decoration. Temper included grog, limestone, and shell, but given the eroded condition of the sherds found in the Area 3-North volunteer excavations, most temper was unidentifiable. Cordage twist was identified for cordmarked ceramics to provide information on the cultural relationships of Woodland populations. The analysis was limited, however, by the fact that few ceramics were found and the surfaces were often highly eroded.

Results

Field Investigations

The 2002 season excavations in the volunteer block were conducted entirely within the AB horizon. The excavations removed the first level of the AB horizon in a 5-m x 5-m block between E215 and E220 and N95 and N100 (Table 9.14).³ Work in the 3-m x 5-m block to the east was completed in the 2001 season. Excavations in the second level were focused on the 5-m x 5-m block, but also involved completion of that level in several units started during the 2001 season. Excavation was limited by the time available in the volunteer program. Because Levels I-2 and I-3 revealed higher artifacts in the eastern half of the excavation block, work in Level I-3 was focused in that area.

As discussed above, investigations in nearby Area 3S indicated that the AB horizon dated to the Early Woodland period. The AB horizon soils and stratigraphic relationships are discussed in detail above.

3. Two units were not excavated because of disturbance.

Table 9.14. Overview of 2002 Season Results

North	East	Level I-1	Level I-2	Level I-3
95	215	30	26	
95	216	15		
95	217	25	32	
95	218	34	71	
95	219	25	37	57
95	220	<i>2001season</i>	116	38
95	221	<i>2001season</i>	33	67
95	222	<i>2001season</i>	<i>2001season</i>	70
96	215	15	0	
96	216		<i>Not excavated</i>	
96	217	24		
96	218	28	56	
96	219	29	58	
96	220	<i>2001season</i>	<i>2001season</i>	130
96	221	<i>2001season</i>	63	75
96	222	<i>2001season</i>	<i>2001season</i>	121
97	215	19		
97	216		<i>Not excavated</i>	
97	217	27		
97	218	50	53	
97	219	67	50	84
97	220	<i>2001season</i>	<i>2001season</i>	102
97	221	<i>2001season</i>	91	133
97	222	<i>2001season</i>	<i>2001season</i>	134
98	215	6	9	
98	216	22		
98	217	42	35	
98	218	24	71	
98	219	37	86	
98	220	<i>2001season</i>	<i>2001season</i>	66
98	221	<i>2001season</i>	<i>2001season</i>	43
98	222	<i>2001season</i>	<i>2001season</i>	236
99	215	11	18	
99	216	0	15	
99	217	25	47	
99	218	26	55	
99	219	50	82	22
99	220	<i>2001season</i>	<i>2001season</i>	76
99	221	<i>2001season</i>	<i>2001season</i>	120
99	222	<i>2001season</i>	<i>2001season</i>	201

Bolded values = Begun in 2001, number = 2002 results

Artifact Analysis

Prehistoric Lithic Artifacts

Lithic artifacts recovered during the 2002 field season included 2,484 pieces of debitage, eight cores, 10 points and point fragments, 10 bifaces and biface fragments, a scraper, 14 flake tools, and a possible perforator (Table 9.15). FCR numbered 961 (46.4 kg). One sandstone manuport and three unmodified fragments of Brush Creek and Vanport cherts were also found. Two scatters of charcoal were identified during the 2002 excavations, but were determined to be non-cultural. No steatite artifacts were found.

Table 9.15. Lithic Artifacts from 2002 Field Season.

Artifact	Number	Percent
Core more reduction	1	<0.1%
Core bipolar	2	0.1%
Tested cobble	2	0.1%
Core fragment	2	0.1%
Utilized core	1	0.0%
Early-stage reduction flake	130	5.1%
Flake fragment	1068	42.2%
Middle-stage reduction flake	739	29.2%
Late-stage reduction flake	524	20.8%
Shatter	21	0.8%
Prismatic blade	1	<0.1%
Pot lid	1	<0.1%
Projectile points	10	0.4%
Biface, early stage	1	<0.1%
Biface, middle stage	1	<0.1%
Biface fragments	7	0.3%
Utilized biface	1	<0.1%
Scraper	1	<0.1%
Utilized flake	12	0.5%
Retouched flake	2	0.1%
Possible perforator	1	<0.1%
	TOTAL	2528
Fire-cracked rock	961	

Cores and Debitage

The 2002 field season produced a total of 2,484 pieces of debitage (Table 9.16). Middle- and late-stage reduction flakes together comprise approximately half the debitage. Most of the lithic material is locally available Onondaga and Brush Creek cherts, so the relatively low proportion of early-stage reduction flakes is notable.

Table 9.16. Total Debitage from the 2002 Field Season

Artifact	Brush Creek	Onondaga	Uniontown	Vanport	Sandstone	Upper Mercer	Other	TOTAL	PERCENT
Early-stage reduction flake	64	55	11					130	5.2%
Flake fragment	354	624	37	5	16	4	28	1068	43.0%
Middle-stage reduction flake	332	361	33	8		2	3	739	29.8%
Late-stage reduction flake	185	301	26			2	10	524	21.1%
Shatter	9	10		1	1			21	0.8%
Prismatic blade		1						1	<0.1%
Pot lid	1							1	<0.1%
TOTAL	945	1352	107	14	17	8	41	2484	
PERCENT	38.0%	54.4%	4.3%	0.6%	0.7%	0.3%	1.7%		

Lithic materials classified as “Other” consist of siltstone, Monongahela chert, quartzite, and unidentifiable materials, as well as small numbers of exotic materials, such as jasper, Kanawha chert, and rhyolite (Table 9.17). Flake fragments and late-stage reduction flakes comprise nearly all of these materials.

Table 9.17. Lithic Materials included in the Category “Other”

	Jasper	Kanawha	Monongahela	Unidentifiable	Quartzite	Rhyolite	Siltstone	TOTAL
Early-stage reduction flake								0
Flake fragment	1		4	9	5	1	8	28
Middle-stage reduction flake			1	2				3
Late-stage reduction flake		2	3	4	1			10
Shatter								0
Prismatic blade								0
Pot lid								0
TOTAL	1	2	8	15	6	1	8	41

Eight cores were identified, including three Onondaga chert cores, two tested sandstone cobbles, and two bipolar cores, one of Uniontown chert and one of Brush Creek chert (Table 9.18). The Onondaga cores are approximately the same size and smaller than the bipolar cores. The sandstone cobbles are the largest of the cores and likely had flakes removed for expedient use. One of the sandstone cores has been heated.

Table 9.18. Cores from 2002 Field Season.

Unit/Level	Cat No	Artifact	Material	Length*	Width	Thick- ness	Comments
N96E222/ I-3	3739.00	Core fragment	Onondaga	33	30.8	14.1	
N97E219/ I-3	3746.00	Core fragment	Onondaga	33.1	29.7	20.8	
N97E222/ I-3	3751.00	Core more reduction	Onondaga	35.1	36.4	14.7	
N98E219/ I-2	3760.00	Tested cobble	Sandstone	85.4	58.3	21.2	Heated with possible flakes removed
N98E222/ I-3	3764.00	Tested cobble	Sandstone	81.9	77.8	19.6	Flat broken cobble with several flakes removed
N99E219/ I-3	3774.00	Core bipolar	Uniontown	44.3	43.9	17.6	Split bipolar pebble
N95E220? I-2	6104.00	Core bipolar	Brush Creek	50	50.4	18.8	

*all measurements in millimeters

Projectile Points

Ten projectile points or fragments were identified, representing a total of nine points (Table 9.19; Figure 9.9). The base and shoulder fragment of an expanding stemmed point mends with a tip found in the unit to the southwest. A bifurcate base point was found, but given the firm dating of the AB horizon to the Early Woodland period, the point was likely picked up from a different location entirely by the Early Woodland occupants of the site. The remaining identifiable point fragments are stemmed and include expanding, straight, and contracting types.

Table 9.19. Points from the 2002 Field Season.

Unit/Level	Cat No.	Artifact	Material	Length*	Width	Thick- ness	Comments
N95E216/ I-1	3716.01	Unidentifiable	Brush Creek	9.2	9.0	4.4	Possible tip fragment
N96E218/ I-2	3733.02	Expanding stem	Onondaga	26.3	16.4	4.8	Heat fractured with the tip and part of base missing
N96E222/ I-3	3739.01	Bifurcate base	Onondaga	22.7	15.9	7.4	Tip broken
N97E219/ I-3	3746.04	Expanding stem	Onondaga	12.5	16.6	7.6	Base fragment
N97E221/ I-2	3748.02	Unidentifiable	Brush Creek	37.4	18.1	8.7	Base broken
N98E217/ I-2	3756.01	Unidentifiable	Brush Creek	11.8	9.5	3.9	Tip fragment. Refits to Cat# 3771
N98E219/ I-2	3760.02	Expanding stem	Onondaga	21.8	17.9	7.5	Base and shoulder fragment
N99E218/ I-2	3771.01	Straight stem	Brush Creek	30.6	17.9	5.6	Tip broken off, refits to Cat# 3756
N99E222/ I-3	3778.02	Contracting stem	Onondaga	9.9	15.1	6.6	Base fragment
N99E222/ I-3	3778.05	Unidentifiable	Brush Creek	33	23.8	10.2	Tip and blade fragment, crushed edges

*all measurements in millimeters

Bifaces

Bifaces include one early-stage and one middle-stage fragment, one utilized biface, and seven unidentifiable fragments (Table 9.20). The fragments include both horizontally and marginally split bifaces. Cortex, where present, is pebble, indicating that the material was procured from nearby pebble deposits. Eight of the 10 bifaces are of Onondaga, Brush Creek, and Upper Mercer cherts, available as local pebble deposits. The remaining two bifaces are of Vanport chert.

Table 9.20. Bifaces from the 2002 Field Season.

Unit/Level	Cat No.	Artifact	Material	Length*	Width	Thick- ness	Comments
N95E219/ I-2	3722.00	Biface fragment	Vanport	37.9	23.4	11.1	Tip fragment
N95E221/ I-3	3727.00	Biface, middle stage	Onondaga	46.5	24.6	15.2	Pebble cortex
N95E222/ I-3	3728.00	Biface, early stage	Brush Creek	44.4	29.7	14.3	Pebble cortex, bipolar reduction
N96E220/ I-3	3736.00	Biface fragment	Brush Creek	15.3	14.1	5.4	Tip fragment, crushed edges
N96E221/ I-2	3737.00	Biface fragment	Brush Creek	38.6	26.5	5.9	Split fragment
N97E221/ I-2	3748.00	Biface fragment	Brush Creek	13.6	6.9	5.2	Marginal fragment
N97E221/ I-2	3748.00	Biface fragment	Onondaga	18.4	11.1	8.6	Marginal fragment, possibly utilized
N97E221/ I-3	3749.00	Utilized biface	Vanport	24.9	16.7	11.4	
N98E219/ I-1	3759.00	Biface fragment	Upper Mercer	18.1	15.8	5	Possible medial fragment
N98E221/ I-3	3763.00	Biface fragment	Brush Creek	17.6	19.6	8.2	Tip fragment

*all measurements in millimeters

Other Tools

Other tools include retouched and utilized flakes, a utilized core, a scraper, and a possible perforator (Table 9.21; Figure 9.10). All of the other tools are of Onondaga or Brush Creek cherts. The perforator is a flake modified to form a spur. One of the utilized flakes is a pebble fragment with approximately 70 percent pebble cortex remaining. The large proportion of expedient tools is consistent with findings in other areas of the site.

Table 9.21. Other Tools from the 2002 Field Season.

Unit/Level	Cat No	Artifact	Material	Length*	Width	Thick-ness	Comments
N96E215/ I-1	3729.00	Scraper	Brush Creek	49.3	45.5	16.4	Possible scraper, all sides are worked
N97E220/ I-3	3747.00	Utilized Core	Onondaga	48.8	39.4	25.2	Fragment, Longitudinal use wear
N97E222/ I-3	3751.00	Possible perforator	Onondaga	22.7	14.1	5.8	Flake with perforator, unilaterally twisted spur
N96E217 /I-1	3731.00	Utilized flake	Onondaga	16.8	14.3	3.8	Flake fragment
N96E218/ I-2	3733.00	Utilized flake	Onondaga	17.6	11	2	Middle-stage flake
N98E219/ I-2	3760.00	Utilized flake	Brush Creek	20.9	22.2	2.9	Middle-stage flake retouched along upper right dorsal margin
N97E219/ I-3	3746.00	Utilized flake	Brush Creek	14.5	8.8	2.2	Middle-stage flake, dorsal margin
N99E220/ I-3	3776.00	Utilized flake	Brush Creek	16.7	19	3.1	Middle-stage flake, left margin dorsal
N97E219/ I-3	3746.00	Retouched flake	Brush Creek	42.3	14.8	4.4	Possible retouching on break
N95E220/ I-2	3724.00	Utilized flake	Onondaga	20.3	9	3	Middle-stage flake, right dorsal margin
N97E221/ I-2	3748.00	Utilized flake	Brush Creek	23	23.4	7	Early-stage flake, distal end dorsal side, transverse use wear
N98E222/ I-3	3764.00	Utilized flake	Brush Creek	12.8	15.7	3.5	Flake fragment, distal ventral
N99E222/ I-3	3778.00	Utilized flake	Onondaga	14.5	13.5	3	Flake fragment, right margin dorsal
N99E222/ I-3	3778.00	Utilized flake	Onondaga	8.7	15.2	1.8	Flake fragment, right ventral transverse use wear
N95E220/ I-2	3724.00	Utilized flake	Onondaga	37.3	22.2	13	Flake fragment dorsal surface, 70% pebble cortex
N96E222/ I-3	3739.00	Utilized flake	Onondaga	23.8	11.6	3.9	Utilized along dorsal margin
N99E219/ I-1	3772.00	Retouched flake	Brush Creek	25.5	12.3	3.4	Middle-stage flake with retouching on right ventral margin

*all measurements in millimeters

Prehistoric Ceramic Artifacts

Eleven ceramic artifacts were found, two of which show evidence of burning on the interior (Table 9.22). All of the exterior surfaces are eroded except for three with S-twist cordmarking (Figure 9.11). Interior surfaces are plain or eroded. Temper, where identifiable, includes grog, limestone, and shell. Two sherds were found in Level I-1, two were found in Level I-3, and the remaining sherds were found in Level I-2. None are chronologically diagnostic.

Table 9.22. Ceramic Artifacts from the 2002 Field Season

	Exterior Surface	Grog	Limestone	Shell	Unidentified	TOTAL
Body	S-twist cordmarked	2		1		3
Neck	Eroded				1	1
Unidentified	Eroded		1		6	7
	TOTAL	2	1	1	7	11

Historic Artifacts

Scattered historic artifacts, numbering 45 in all, were also found during the 2002 season fieldwork (Table 9.23). Approximately 78 percent of the historic artifacts were found in the upper 10-cm of the AB horizon. However, seven pieces of slag, a metal fragment, and a piece of glass were recovered from scattered locations in the second and third levels. The artifacts consist primarily of glass, slag, and nails. However, two sherds of stoneware and four sherds of whiteware were found. All of the artifacts likely were translocated downward from the plowzone through bioturbation and other natural processes.

Table 9.23. Historic Artifacts from the 2002 Field Season.

Level	Artifact	Count
I-1	Brick	3
I-1	Unidentifiable nail	2
I-1	Wire nail	1
I-1	Spike, unidentified	1
I-1	Stoneware, brown salt-glazed, plain	1
I-1	Stoneware, gray salt-glazed, plain	1
I-1	Whiteware, plain	4
I-1	Glass liner	1
I-1	Indeterminate container glass	16
I-1	Unidentifiable curved glass	1
I-1	Miscellaneous metal, unidentifiable	1
I-1	Miscellaneous plastic	1
I-1	Slag	3
I-2	Miscellaneous metal, other	1
I-2	Slag	3
I-3	Slag	4
I-3	Unidentifiable glass, other	1
	Total	45

Artifact Recovery by Level

The first level of the AB horizon (Level I-1) was excavated from 22 1-m x 1-m units. Lithic artifacts consist primarily of Brush Creek and Onondaga chert debitage (Table 9.24). Tools include a scraper, two flake tools, and an unidentifiable point. Two

ceramic sherds were present. No chronologically diagnostic artifacts were found. The average artifact density in the level was 13.5 artifacts per unit.

Table 9.24. Lithic Artifacts from Level I-1.

	Brush Creek	Onon - daga	Other	Sand- stone	Union- town	Upper Mercer	Van- port	TOTAL	PER- CENT
<i>Cores and Debitage</i>									
Early-stage reduction flake	6	9						15	5.1%
Flake fragment	45	78	7	3	2			135	45.9%
Middle-stage reduction flake	34	51			3	1	2	91	31.0%
Late-stage reduction flake	14	31						45	15.3%
Shatter	2	4						6	2.0%
Prismatic blade		1						1	0.3%
TOTAL	101	174	7	3	5	1	2	293	
PERCENT	34.4 %	59.2 %	2.4%	1.0%	1.7%	0.3%	0.7 %		
<i>Tools and Bifaces</i>									
Other projectile point	1							1	20.0%
Biface fragments						1		1	20.0%
Other scraper	1							1	20.0%
Utilized flake		1						1	20.0%
Retouched flake	1							1	20.0%
TOTAL	3	1	0	0	0	1	0	5	
PERCENT	60.0 %	20.0 %				20.0%			
Fire-cracked rock	<i>n</i> =327		17.8 kg						

The second level of the AB horizon was excavated from 23 units, one of which produced only historic artifacts.⁴ Artifact density was much higher (29.5 artifacts per unit) than in the overlying level. The artifacts include a bipolar core, a tested cobble, and 663 pieces ofdebitage (Table 9.25). Four bifaces and five flake tools were also found. The level had the highest number of points, including two expanding stemmed, one straight stemmed, and two unidentifiable fragments. One of the fragments is a tip that mended with the straight stemmed point. Lithic materials consist primarily of Brush Creek and Onondaga chert, although one jasper and one rhyolite flake were recovered. Most (*n*=7) of the pottery was found in this level.

⁴ The excavations included units where the first level of the AB horizon had been removed in 2001.

Table 9.25 Lithic Artifacts from Level I-2

	Brush Creek	Onon- daga	Other*	Sand- stone	Union- town	Upper Mercer	Van- port	TOTAL	PERCENT
<i>Cores and Debitage</i>									
Core bipolar	1							1	0.2%
Tested cobble				1				1	0.2%
Early-stage reduction flake	22	24			2			48	7.2%
Flake fragment	101	162	9	8	9	1	1	291	43.8%
Middle-stage reduction flake	97	116	1		11		1	226	34.0%
Late-stage reduction flake	29	57			6	1		93	14.0%
Shatter	2	3						5	0.8%
TOTAL	252	362	10	9	28	2	2	665	
PERCENT	37.9%	54.4%	1.5%	1.4%	4.2%	0.3%	0.3%		
<i>Tools and Bifaces</i>									
Expanding stem point		2						2	14.3%
Straight stem point	1							1	7.1%
Other projectile point	2							2	14.3%
Biface fragments	2	1					1	4	28.6%
Utilized flake	2	3						5	35.7%
TOTAL	7	6	0	0	0	0	1	14	
PERCENT	50.0%	42.9%					7.1%		
Fire-cracked rock	n=418		17.4 kg						
*Includes 1 rhyolite and 1 jasper flake fragment									

Level I-3 was excavated in 18 units and revealed a significant increase in lithic artifact density (86.3 per unit). Seven cores, 1,528 pieces of debitage, four bifaces, nine flake tools, four points, and a possible perforator were identified (Table 9.26). No jasper or rhyolite was present, but two Kanawha and eight Monongahela chert flakes were found. Onondaga and Brush Creek cherts predominate in approximately the same proportions as in overlying levels. None of the points could be assigned to a diagnostic type. The bifurcate point, a type generally associated with the Early to Middle Archaic, was likely picked up elsewhere and carried onto the site by the Early Woodland inhabitants. Only two ceramic artifacts were found in the level, neither of which is chronologically diagnostic. Like the levels above, the subassemblage from Level I-3 likely dates to the Early Woodland period, although admixture from the underlying Transitional Archaic occupation in Area 3 could be present.

COMBINED RESULTS OF VOLUNTEER EXCAVATIONS

In all, the volunteer excavations within the Area 3-North block produced 4,600 chipped stone artifacts, four manuports, three pieces of raw material, and 30 ceramic sherds (Table 9.27). Over 62 kg of FCR were also recovered. More than half of the

lithic and ceramic artifacts, excluding FCR, were recovered from the third level of the AB horizon, representing a markedly higher artifact density than the overlying levels. However, most of the differences in density resulted from debitage. In contrast, FCR density, both by count and weight, was highest in the second level of the horizon. Most of the ceramics were also found in the second level. The proportion of tools relative to debitage was also highest in the second level.

Table 9.26. Lithic Artifacts from Level I-3

	Brush Creek	Onon- daga	Other*	Sand- stone	Union- town	Upper Mercer	Van- port	TOTAL	PERCENT
<i>Cores and Debitage</i>									
Raw material	1						1	2	0.1%
Core more reduction		1						1	0.1%
Core bipolar					1			1	0.1%
Tested cobble				1				1	0.1%
Core fragment		2						2	0.1%
Early-stage reduction flake	36	22			9			67	4.4%
Flake fragment	208	384	12	5	26	3	4	642	41.8%
Middle-stage reduction flake	201	194	2		19	1	5	422	27.5%
Late-stage reduction flake	142	213	10		20	1		386	25.1%
Shatter	5	3		1			1	10	0.7%
Pot lid	1							1	0.1%
TOTAL	594	819	24	7	75	5	11	1535	
PERCENT	38.7%	53.4%	1.6%	0.5%	4.9%	0.3%	0.7%		
<i>Tools and Bifaces</i>									
Bifurcate point		1						1	5.6%
Expanding stem point		1						1	5.6%
Contracting stem point		1						1	5.6%
Other projectile point	1							1	5.6%
Biface, early stage	1							1	5.6%
Biface, middle stage		1						1	5.6%
Biface fragments	2							2	11.1%
Utilized biface							1	1	5.6%
Utilized flake	3	3						6	33.3%
Retouched flake	1							1	5.6%
Utilized core		1						1	5.6%
Possible perforator		1						1	5.6%
TOTAL	8	9	0	0	0	0	1	18	
PERCENT	44.4%	50.0%					5.6%		
Fire-cracked rock	n=216		11.2 kg						
Manuport	n=1								

*Includes two Kanawha chert and eight Monongahela chert debitage

Table 9.27. Artifacts by Level from Volunteer Excavations.

Level	Level 1	Level 2	Level 3	TOTAL
Number of units	38	32	18	88
Raw material	1		2	3
Cores	6	5	5	16
Debitage	688	1295	2558	4541
Ceramics	8	20	2	30
Other stone/manuports	2	1	1	4
Points	2	7	4	13
Bifaces	1	6	5	12
Other tools	4	5	9	18
TOTAL	712	1339	2586	4637
DENSITY	18.7	41.8	143.7	52.7
Fire-cracked rock (count)	549	585	216	1350
DENSITY	14.4	18.3	12.0	15.3
Fire-cracked rock (kg)	27.3	24.3	10.8	62.4
DENSITY	0.7	0.8	0.6	0.7

Artifact distributions were mapped using Surfer, a mapping software package. The maps indicated that artifact distribution was higher in the eastern half of the block (Figures 9.12 – 9.14). Debitage densities in the western half of the block were very low and only three tools were found in that portion of the block.

Debitage distributions differed from level to level. In Level 1, the highest density area was completely within the block. In Level 2, high densities were in the south and the cluster likely extended outside the block to the south, whereas in Level 3, the high-density cluster likely extended outside to the northeast. These differences in artifact patterning suggest that more than one occupation is present within the AB horizon.

With the exception of a scraper, a flake tool, and an unidentifiable point in Level 1, all of the tools were in the eastern portion of the block. The tools in all levels tended to be clustered, with as many as four tools in a single unit in Level 3. However, the clusters generally did not consist of related tool types that would suggest specific activity areas.

FCR distribution differed fromdebitage distribution in that highest densities were in the center of the block in both Levels 1 and 2. In Level 1, the high density areas extended into the western half of the block. In general, FCR was most abundant in areas where tool anddebitage densities were lowest.

DISCUSSION

Research Issues

The District's Effect Report and Recommended Data Recovery Plan, Site 36AL480, Leetsdale, Allegheny County, Pennsylvania (2000) (DRP) identified five research themes—site settlement patterns, subsistence and seasonality studies, cultural chronology, artifact assemblage and lithic technology, and environmental context. Data recovery excavations and analyses were carried out to obtain data helpful in answering specific questions related to each theme.

The Area 3-South data recovery excavation results and interpretation are discussed in detail in Chapter 8. The chapter's discussion of AB horizon artifacts and features incorporates those materials recovered from the AB horizon of the volunteer block during the 2001 field season. The following discussion is based on data from the volunteer excavations conducted in 2001 and 2002. However, because of the small area, the limited depth excavated, and the lack of features, the data are of limited value in addressing the research issues identified for the site.

Cultural Chronology

Chronologically diagnostic artifacts in the volunteer excavations were consistent with the interpretation of the AB horizon as an Early Woodland context. Ceramics included sherds attributable to Early Woodland Half-Moon Cord-Marked and Watson Cord-Marked types. A Forest Notched point was also found, although most of the points were untyped stemmed varieties. These ceramic and point types were also recovered from the more extensive excavations of the AB horizon in Area 3-South.

Subsistence and Seasonality

No botanical or faunal remains were recovered from feature contexts during the volunteer excavations, nor were artifacts found that could address research issues related to subsistence and seasonality.

Site Settlement Patterns

The activities that took place in this area of Site 36AL480 are difficult to determine given the absence of features and the small number of tools recovered. The predominant activity represented is lithic reduction. However, the presence of ceramics and FCR indicate that a wider range of activities took place in the vicinity. Related features may be present outside the excavation block.

Artifact Assemblage and Lithic Technology

Only 18 tools were recovered from the volunteer excavations in Area 3. As elsewhere on the site, most of the tools were expedient, fashioned from nearby pebble sources of Onondaga and Brush Creek cherts. One possible perforator was found, fashioned from a flake. The scraper was worked on all sides.

The assessment of lithic material use is hampered by apparent differences in material classification between the labs of Tetra Tech and KCI. Lithic materials from the 2001 field season, analyzed by Tetra Tech, revealed that 99.7 percent of the debitage was Onondaga chert. In contrast, the debitage assemblage analyzed by KCI included 54.5 percent Onondaga chert and 38.0 percent Brush Creek chert, with the remaining flakes distributed among a variety of other materials. The difference clearly represents differences in methods of lithic classification by the two labs. Despite this difference, it is clear that nearly all of the lithic manufacturing that took place at this location utilized material from nearby pebble sources.

As discussed below, the prevalence of heat treatment was much lower in the 3-North volunteer block than in the nearby 3-South excavations. Only 19.1 percent of the debitage from the 2001 field season and 13.4 percent of the debitage from the 2002 season had evidence of thermal alteration, whereas 74.1 percent of the Area 3-South debitage was thermally altered. The finding suggests a clear difference in the use of heat treatment in lithic manufacturing between the two areas of the site. The Area 3-North proportion of heat treatment is similar to the Early Woodland occupations of Areas 1 and 2.

The presence of cortex also differed between the two Area 3 blocks. In Area 3-North cortex was present on 25.0 percent of the 2001 field season debitage and 48.0 percent of the 2002 field season debitage. In contrast, cortex was found on 81.4% of the Area 3-South debitage. This finding indicates that lithic reduction in Area 3-South was focused more on the initially trimming of chert pebbles. Again, the Areas 1 and 2 proportions of flakes with cortex were more similar to Area 3-North.

Little evidence of bipolar reduction was found in the volunteer block excavations. Two bipolar cores and nine bipolar flakes were recovered in the 2001 field season. No evidence of bipolar technology was found in the 2002 field season excavations. Bipolar technology was present in the Early Woodland context of Area 2 where 14 of 31 cores were bipolar, and in Area 3-South, where eight of 65 cores were bipolar. No Early Woodland bipolar cores were recovered in Area 1.

Environmental Context

The volunteer excavations in Area 3 were conducted entirely within the AB horizon and confirmed the information on environmental context found in the nearby Area 3-South investigations (see Chapter 8).

Area 3-North Volunteer Block Results in Relationship to Area 3-South Excavation Block Results

In this section the results of the Area 3-North volunteer block excavations are compared to the results of professional excavations by Baker and Tetra Tech in Area 3-South. To avoid differences resulting from different laboratory techniques, especially related to differences in debitage analysis, only the volunteer excavations undertaken by

Baker and Tetra Tech (2001 field season) are considered in this analysis. The volunteer block excavation results for that season are both consistent and inconsistent with professional excavation block results from nearby Area 3-South. Artifact recovery for each is presented in Table 9.28.

Table 9.28. Prehistoric Artifact Recovery in Professional and Volunteer Blocks.

Artifact	Professional Block	Volunteer Block	Total
Flaked Stone Tools			
Projectile points/ knives	20	3	23
Bifaces	9	2	11
Expediency tools	1	1	2
Cores	56	9	65
Debitage	2,499	1,025	3,524
Groundstone	10	0	10
Other stone	47	3	50
FCR	4,214	389	4,603
Ceramics	332	19	351
Faunal remains	1,071	0	1,071
Floral remains	12,575	0	12,575
Total	20,834	1,451	22,284

The total excavated area was 272 m² including 254 m² of professional excavations and 18 m² of volunteer excavations. The AB horizon ranged in thickness from 7 cm to 36 cm across the site. In the professional excavation blocks, all AB horizon soils were removed and screened. In the volunteer block, the upper 10-cm level of AB horizon was removed from all 18 units. Level 2 was wholly removed from 12 units, partially removed in four units, and not excavated at all in two units. Because of those conditions, it is not possible to accurately compare volunteer block excavation results to those associated with the professional block in a statistical framework. These types of comparisons can be discussed only generally; any associated conclusions are tenuous.

Flaked Stone Tools

Flaked stone tools were recovered from both excavation areas. There is consistency between the two assemblages in terms of tool types represented and the relative frequency of each, diagnostics, and lithic source material. The density of tools across excavation areas is not consistent.

Finds from both excavation areas are limited to pp/ks, bifaces, expediency tools, and cores. Each tool type represents a similar percentage of the excavation block's flaked stone tool kit as shown in Table 9.29. Forest-notched points (or fragments) were found in the main block ($n=7$) and in the volunteer area ($n=1$). This point type dates from ca. 1080 to 740 B.C. and is the only diagnostic lithic associated with the volunteer block.

Table 9.29. Flaked Stone Tool Kit Composition by Excavation Area.

Flaked Stone Tool Type	Professional Block		Volunteer Block	
	Count	Percent	Count	Percent
Projectile points/ knives	20	23.26%	3	20.00%
Bifaces	9	10.47%	2	13.33%
Expediency tools	1	1.16%	1	6.67%
Cores	56	65.12%	9	60.00%
Total	86	100%	15	100%

Most of the flaked stone tools are Onondaga chert. The overall assemblage includes 19 Onondaga chert pp/ks (or fragments), two Upper Mercer pp/k fragments, and one unidentified chert pp/k fragment. All the bifaces ($n=11$), expediency tools ($n=2$) and cores ($n=65$) are Onondaga chert. Two of the three non-Onondaga pieces were found in the volunteer block. So, overall, the most frequently observed lithic material associated with AB horizon flaked stone tools on-site is Onondaga chert; however, there is slightly more diversity present among the volunteer block assemblage.

Volunteer block flaked stone tools account for 15 of 101 total for the AB horizon including 13 percent of the pp/ks, 18 percent of the bifaces, half of the expedient tools, and nearly 14 percent of the cores. Data are presented in Table 9.30.

Table 9.30. Flaked Stone Tool Recovery in the AB Horizon by Count and Percent of Overall AB Horizon Flaked Stone Tool Assemblage.

Flaked Stone Tool Type	Total Count	Professional Block		Volunteer Block	
		Count	Percent	Count	Percent
Projectile points/ knives	23	20	86.96%	3	13.04%
Bifaces	11	9	81.82%	2	18.18%
Expediency tools	2	1	50.00%	1	50.00%
Cores	65	56	86.15%	9	13.85%

The 18-m² volunteer block excavated in the 2001 field season accounts for almost 7 percent of the total AB horizon excavation area. Fifteen flaked stone tools were found in this area, which roughly equates to one tool for every 1.2 m of excavation. For the main block, the ratio is closer to one tool per 3 m of excavations based on area alone. Volunteer excavations produced a greater density of flaked stone tools than the main excavation block. That probably indicates that the volunteer block is coincidentally focused on an activity area. Two discreet activity areas were identified in the main block as well through spatial analysis. These two discreet areas were characterized in part by units producing artifact densities higher than surrounding or intervening units or both.

Debitage

Debitage was found in both excavation areas, and a variety of debitage analyses were performed on the whole AB horizon collection. The basic debitage assemblage is consistent between excavation areas. The same components (whole flakes, proximal

fragments, other flake fragments, and shatter) are present, and they occur with the same relative frequency in both areas as shown in Table 9.31. Minor deviations are observed in whole and bipolar flakes, which are slightly more prevalent in the volunteer block. It should be mentioned that the same trend is observable among cores—three of nine (33 percent) found in the volunteer block are bipolar, whereas in the main block, it is 10 of 56 or roughly 18 percent.

Table 9.31. General Debitage Composition by Excavation Area.

Debitage Type	Professional Block		Volunteer Block	
	Count	Percent	Count	Percent
Whole Flakes	547	21.89%	283	27.61%
Proximal Flake Fragments	609	24.37%	225	21.95%
Other Flake Fragments and Shatter	1287	51.50%	508	49.56%
Bipolar Flakes	56	2.24%	9	0.88%
Total	2,499	100%	1,025	100%

Mass analyses were performed on the entire assemblage. As part of the analysis, artifacts were measured and placed into size categories, lithic type or source material was documented, flakes with cortex were noted, and so were those that appeared to be thermally altered. Results are consistent between the two excavation areas in terms of sizing (Table 9.32) and lithic material (Table 9.33). Results are completely different for the two work areas with respect to cortical material present and indication of thermal alteration (Table 9.34).

Table 9.32. Debitage Size Grade by Excavation Area.

Debitage Size	Volunteer Block		Professional Block	
	Count	Percent	Count	Percent
< 0.25 inches	345	33.66%	899	35.97%
> 0.25 inches - < 0.5 inches	650	63.41%	1461	58.46%
> 0.5 inches - < 1 inch	28	2.73%	122	4.88%
> 1 inch	2	0.20%	17	0.68%
Total	1,025	100%	2,499	100%

Table 9.33. Debitage Material by Excavation Area.

Lithic Raw Material	Volunteer Block		Professional Block	
	Count	Percent	Count	Percent
Onondaga Chert	1022	99.71%	2472	98.92%
Upper Mercer Chert	3	0.29%	9	0.36%
Flint Ridge/Vanport Chert	0	0.00%	9	0.36%
Unidentified Material	0	0.00%	9	0.36%
Total	1,025	100%	2,499	100%

Table 9.34. Cortical and Thermally Altered Debitage by Excavation Area.

	Volunteer Block		Professional Block	
	Count	Percent	Count	Percent
Cortex Present	256	24.98%	2,033	81.35%
Thermally Altered	196	19.12%	1,852	74.11%

Explaining the inconsistency is a challenge. It could be that more core reduction, and core reduction that involved heat treatment, occurred in the main excavation block area than in the volunteer block. Perhaps volunteer block lithic reduction was more focused on biface thinning than core reduction. Whole and proximal flakes ($n=1,664$) were also analyzed as to reduction sequence as shown in Table 9.35. The frequency of primary and secondary flakes between the areas seems to support this explanation somewhat.

It is worth also noting that nearly 90 percent of all cortical debitage and 90 percent of all thermally altered debitage was recovered from the main excavation block (Table 9.36). Nearly 75 percent of all primary flakes also came from the main excavation block, along with 66 percent of the secondary flakes, and 72 percent of the tertiary flakes. The volunteer block, totaling less than 7 percent of the total excavation area, produced 30 percent of all AB horizon debitage and 30 percent of all debitage subject to detailed analysis. Of the flakes subject to detailed analysis the volunteer block produced 34 percent of all secondary flakes and roughly 25 percent of the primary and tertiary flakes. This further supports the idea that the volunteer excavation block was the site of a lithic workshop and that biface thinning was a focus of activity there.

Table 9.35. Flakes by Reduction Stage by Excavation Area.

Flake Reduction Stage	Volunteer Block		Professional Block	
	Count	Percent	Count	Percent
Primary	107	21.06%	320	27.68%
Secondary	323	63.58%	639	55.28%
Tertiary	75	14.76%	193	16.70%
Unidentified	3	0.59%	4	0.35%
Total	508	100%	1,156	100%

Table 9.36. Volunteer Block and Professional Block Debitage Types by Count and Percent of Overall AB Horizon Assemblage.

Debitage Type	AB Horizon Total	Volunteer Block		Professional Block	
		Count	Percent	Count	Percent
Cortex	2,289	256	11.18%	2,033	88.82%
Thermally altered	2048	196	9.57%	1,852	90.43%
Flake Type					
Primary	427	107	25.06%	320	74.94%
Secondary	962	323	33.58%	639	66.42%
Tertiary	268	75	27.99%	193	72.01%
Unidentified	7	3	42.86%	4	57.14%
Total	1,664	508	30.53%	1,156	69.47%

Other flake attributes considered were consistent between work areas including platform shape (Table 9.37) and angle (Table 9.38). Seventy-eight percent of the debitage in both blocks exhibited bulbs of percussion.

Table 9.37. Platform Shape Percentages for Volunteer and Professional Excavation Blocks.

Platform Shape	Volunteer Block	Professional Block
Flat	28%	29%
Lipped	23%	22%
Faceted	34%	32%
Cortical	15%	17%
Total	100%	100%

Table 9.38. Platform Angle Distribution and Percents for Volunteer and Professional Blocks.

Platform Angle	Volunteer Block		Professional Block	
	Count	Percent	Count	Percent
0-4°	0	0%	0	
5-9°	0	0%	0	
10-14°	1	0.2%	0	
15-19°	0	0%	0	
20-24°	2	0.39%	3	0.26%
25-29°	2	0.39%	6	0.52%
30-34°	13	2.56%	13	1.12%
35-39°	9	1.77%	13	1.12%
40-44°	26	5.12%	36	3.11%
45-49°	8	1.57%	39	3.37%
50-54°	48	9.45%	102	8.82%
55-59°	13	2.56%	50	4.33%
60-64°	58	11.42%	145	12.54%
65-69°	24	4.72%	55	4.76%
70-74°	81	15.94%	153	13.24%
75-79°	51	10.04%	81	7.01%
80-84°	58	11.42%	146	12.63%
85-89°	29	5.71%	84	7.27%
> 90°	14	2.76%	36	3.11%
Indeterminate	71	13.98%	194	16.78%
Total	508	100%	1,156	100%

Analysis of the lithic assemblage indicates that the entire sequence of reduction took place at Area 3-South. Cores, primary, secondary, and tertiary stage flakes, and finished bifaces and pp/ks were recovered. Bipolar cores and flakes among the assemblage show that that technique was used along with the more well-known direct percussion technique of reducing cores.

Data collected on platform types and dimensions shows an almost even division among flat, lipped, faceted, and cortical platform types, to suggest that both soft and hard percussors were used to reduce cores and shape bifaces. Slightly over three-quarters of whole and proximal flakes (78 percent) exhibited a bulb of percussion, to indicate a hard hammer technique was used to remove flakes from cores and in biface manufacture.

Although there is a wide range of platform angles represented, most striking platform angles were found to fall within three categories: 60 to 64 degrees, 70 to 74 degrees, and 80 to 84 degrees. Angles greater than 90 degrees and less than 30 degrees totaled less than 5 percent of the collection studied. The presence of the larger platform angles suggests that direct percussion rather than pressure flaking was more common in reducing cores and shaping bifaces. While some pressure flaking surely took place, the peaks in the middle to larger range of angles is most likely the result of core reduction and biface thinning. If cobbles, rather than tabular (quarried) lithic material were the primary raw material source, more initial reduction might have occurred than would be apparent from the platform angle data, because by its nature the size of a cobble would seem to limit the possible striking platform angle or the need to remove large amounts of stone.

Other Stone

Other stone artifacts found in the volunteer block are limited to three unmodified pebbles. Excavations in the professional block produced 47 other stone artifacts including net weights, nutting stones, hammerstones and anvils, and pitted stones of indeterminate function. Also found were 22 unmodified pebbles, fragments of steatite, mica, hematite, and ochre. The lack of other stone artifacts in the volunteer block indicates that limited specialized activities occurred there, whereas multiple and diverse activities occurred across the professional blocks.

Fire-Cracked Rock

The total FCR recovery for the AB horizon was 4,603 pieces, weighing 308.3 kg. Of that, 389 pieces weighing 16.46 kg were found in the volunteer block. Volunteer block FCR represents 8 percent of the total by count and 5 percent by weight.

Ceramics

The ceramic assemblage is not inconsistent between the volunteer and professional blocks. A total of 222 prehistoric ceramic sherds weighing 538.5 g and 133 fragments of fired prepared clay feature floors weighing 438.6 g were found. The clay flooring was found in feature context. No clay flooring or features were found in the volunteer block. Of the ceramic sherds, 19 weighing 91.6 g were found in the volunteer

block. Volunteer block ceramic sherds account for nearly 9 percent of the total recovery by count and 17 percent by weight.

The main excavation block produced a range of temper types and diagnostics that is greater than that observed in the volunteer block. Twenty-one different tempers are observed in the main block assemblage as opposed to six in the volunteer block. Eroded or spalled (or both) pieces are observed in both assemblages as are smooth, cord-marked, and smoothed-over cord-marked exteriors. Smoothed and smoothed-over cord-marked interior surfaces are present in both assemblages. All ceramic types observed in the volunteer block are seen in the main block. Noteworthy is that the one lower body sherd to basal heel fragment found on site was recovered from the volunteer block.

The professional excavation block produced a greater range of diagnostic sherds than the volunteer block. Diagnostics found in the professional excavation block include Half-Moon Cord-Marked, Middle Ohio Valley Adena Plain, McKees Rocks Plain two different unnamed late Early Woodland types, Watson Cord-Marked, and Mahoning Cord-Marked. Volunteer block diagnostics include Half Moon Cord-Marked and Watson Cord-Marked types.

Faunal and Floral Remains

All the faunal and floral remains found in the AB horizon came from the professional excavation block and most of them came from two features, Feature 238 and Feature 243. No faunal or floral remains were found in the volunteer block.

Features

As previously noted, no features were identified in the volunteer block. All 38 features identified in the AB horizon are associated with the professional excavations.

SUMMARY

The Site 36AL480 volunteer excavation program was undertaken to partially fulfill the District's commitments for public outreach. The volunteer excavations were conducted in a 5-m x 8-m block within Area 3-North, about 9 meters from the Area 3-S excavation block. Up to three levels were removed in 10-cm increments. The depth of excavation was limited by the time available for the volunteer program.

The 2001 volunteer excavation block measured 18 m². In 2002 the block was expanded to cover 40 m². Excavations were carried out in Levels 1, 2, and 3 of the AB horizon, which primarily contained archaeological materials associated with the Early Woodland period. A few historic-period items were also found.

The volunteer block excavations produced 31 flaked stone tools, 4,541 pieces of debitage, 16 cores, 12 bifaces, four manuports or unmodified pebbles, 1,350 pieces of FCR, 30 sherds of pottery, and 58 miscellaneous historic items. The overall indication is a lithic workshop with pottery and FCR suggesting additional activity nearby. The volunteer block did not produce any groundstone items. In contrast, net weights, nutting

stones, hammerstones, battered cobbles, and pitted stones were all found in the nearby Area 3-South block. In the main block, the hammerstones and anvils were collocated with bipolar tool manufacturing debris and interpreted as being associated with the manufacturing process. Bipolar cores and flakes were found in the volunteer block, but no hammerstones or anvils were found. Also noteworthy, much lower proportions of thermally altered and cortical debitage were found in the volunteer block as compared with the Area 3-South block.

Differences highlighted, it should be emphasized that when considering the volunteer block finds in relation to the Area 3-South block finds, there are no changes in overall site interpretation. The AB horizon contains diagnostic tools and other archaeological remains affiliated with the Early Woodland period. An examination of the type and distribution of these artifacts and features suggests that they are associated with short-term visits and a generalized activity set. The kinds of activities that apparently took place within the Area 3-South excavation block are greater than those identified in the volunteer block, but tool manufacture, maintenance, and use is indicated for both areas and the same technologies (direct and bipolar reduction) were used.

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APPENDIX 9A: VOLUNTEER MANAGEMENT PLANS

VOLUNTEER MANAGEMENT PLAN

**PHASE III DATA RECOVERY
36AL480 - AREA 3 SOUTH**

Submitted to:

**U.S. Army Corps of Engineers
Pittsburgh District
Natural and Cultural Resources Section
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June 2001

GS10F0268K/DACW59-01-F-0015

INTRODUCTION

All volunteer coordination and on-site supervision will be handled by Jonathan Glenn and will be discussed with the District prior to initiation. Mr. Glenn will be present during all on-site volunteer activities. The volunteer schedule for this project will be restricted to Sundays and potentially two one-week time periods, as stated in the Scope-of-Work (Revised). It is our understanding that construction activities will be halted on Sundays, thus creating a safer and more easily accessible environment for the volunteers. If heavy machinery is not being utilized on Sundays then it is assumed that volunteers will not be required to wear steel-toed boots. Without this stipulation the amount of volunteer response is anticipated to be minimal, if any. Each volunteer will need to provide their own work gloves and steel-toed boots if such safety equipment is required. An adequate number of hard hats, safety glasses, excavation equipment, and forms will be provided by the Tetra Tech/Baker team, as needed, for every volunteer activity.

OUTREACH

It is proposed that a “call for volunteers” be advertised on the project web site, at the local library, and/or in the local newspaper as part of a press release about the project. Additionally, there is an opportunity to have the volunteer program announced at the monthly meeting for the Allegheny Chapter of the Society for Pennsylvania Archaeology (SPA). The specific dates will not be advertised so as to limit possible confusion/congestion caused by numerous walk-up volunteers and to reduce the need to turn people away at the site. Volunteers will be required to telephone Mr. Glenn to receive further details and to register for a particular volunteer day (voicemail will be available for after hours and weekend calls). At that time they will also be advised of the clothing and ingress/egress requirements, and required to verbally confirm their physical capability to perform the work. If there is any question as to their physical capabilities, a *Standard Form 256, Self-identification of Handicap* or physical examination may be required.

Walk-up volunteers will only be permitted if the day is not already filled by previously registered volunteers and the volunteer meets all other stated requirements. No volunteers will be permitted outside of those days specified as volunteer days. These “open enrollment” days will be scheduled to occur only on Sundays. If there is enough interest by the volunteers and the District, given the close proximity of the laboratory, a few weekday volunteer days could take place in the off-site laboratory to allow for additional hands-on experience.

In addition to the “open enrollment,” during the excavation portion of the project, the local high school, junior high, and/or middle school will be contacted to set up a program for limited groups of interested students or specific classes. This will consist of no more than an hour, per group, of classroom lecture and discussion about the site/project specifically, and archaeology in general, including work sheets and a hands-on display of artifacts. This will be followed by a separate day of on-site excavating for each student group. The excavation portion would be performed during the weekday volunteer periods, if that time period is implemented. If for any reason the weekday on-site volunteer periods cannot be arranged, an attempt will be made to negotiate a Sunday schedule with the school.

Given the current time of year, with local schools coming to a close, it may become impossible to involve formal school groups. If this is the case then other outlets to involve school-age children will be explored. These may include such groups as boy scouts and girl scouts, YMCAs, and church groups.

It is understood that the District may arrange a day for their employees to participate in the excavations at the volunteer portion of the project area.

Subsequent to the completion of the professional excavations, Tetra Tech and or Baker employees will be available, as time and schedule permit, for public presentations of the results of the archaeology performed as part of this contract. It is anticipated that a total of two formal public presentations will be given; at a meeting (open to the public) of the Allegheny Chapter of the SPA, and at a local public venue within the Leetsdale/Sewickley area.

EXCAVATIONS

As stipulated, 3-meter (m) by 5-m blocks will be prepared for excavation by volunteers. Volunteer blocks will be located no closer than 6 m to the professionally excavated portion of the site. The number of blocks will be determined by the amount of volunteer response. These blocks will be excavated following the same basic methods employed in the adjacent professional excavation so that the resulting data can be incorporated into the analyses. Experienced excavators will be available, as required, to assist Mr. Glenn in supervising on-site volunteer activities. It is assumed that a maximum of 25 volunteers will be permitted on-site at any one time, and that one experienced field technician will be required for every six volunteers to monitor their activities. Each excavation team (2-3 people) will be designated by a letter of the alphabet and assigned to a specific 1-m² unit. Individuals will take turns excavating and screening, with all excavated soil being transported to the screens in buckets. The team’s corresponding letter will be placed on the buckets so as to eliminate any confusion during the screening process.

Each volunteer project personnel will be given a name tag so as to facilitate communication between supervisors and volunteers, and within the volunteer group. All applicable regulations stipulated in the Accident Prevention Plan will be strictly enforced. Before entering the project area, every volunteer group will receive a brief presentation on safety issues concerning archaeology in general and the site specifically. Also, a brief training session in proper field methods and the importance of archaeology will be conducted. If required, vehicles will be available to transport volunteers from the parking area to the excavation area. Volunteer foot traffic within the excavation area will be kept well away from any professional excavations by means of some type of fencing, roping, and/or temporary structure covering the professional portion of the site. No one under twelve years of age will be permitted to volunteer and all minors will be required to submit a consent form (*Parental Approval, ENG Form 4881-R*) signed by a parent or legal guardian. No volunteer will be permitted to participate without signing an *Agreement for Individual/Group Volunteer Services (ENG Form 4880-R)* form.

A written record of all volunteer participation (*ENG Form 4882-R*) will be maintained, including the number of volunteers and hours donated per day, as well as a list of individual contact information and which volunteers were present on each day. Volunteer progress will be recorded in the standard progress photographs and weekly reports stipulated in the Scope-of-Work. All results of the volunteer program will be incorporated into the final report.

VOLUNTEER MANAGEMENT PLAN

ARCHAEOLOGICAL DATA RECOVERY AND RELATED SERVICES, AREA 2, SITE 36AL480, LEETSDALE, ALLEGHENY COUNTY, PENNSYLVANIA

September 2002

Submitted To:



U. S. Army Corps of Engineers, Pittsburgh District
727 W.S. Moorhead Federal Building
1000 Liberty Avenue
Pittsburgh, Pennsylvania 15222-4186

Submitted By:



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INTRODUCTION

Under contract to the U.S. Army Corps of Engineers, Pittsburgh District, Greenhorne & O'Mara, Inc. (G&O) and its subconsultant KCI Technologies, Inc. (KCI), will be conducting data recovery investigations within Area 2 and Area 3 of site 36AL480, located in Leetsdale, Pennsylvania. The investigations in Area 3 will be conducted as part of the Public Education program, and will involve volunteer participation. In addition to the excavations in Area 3, volunteers will have the opportunity to participate in field laboratory activities. Site tours of Area 2 will also be conducted as part of the Public Education program.

Site Description

Site 36AL480 is located along the Ohio River at the Leetsdale Industrial Park in Leetsdale, Pennsylvania. Three set aside areas (numbers 1, 2, and 3) have been designated for archaeological data recovery investigations.

Site 36AL480 is an approximately 12-acre multicomponent site spanning the Early/Middle Archaic Period through the Late Woodland Period. In addition, a portion of the site (in Area 1) contains the remains of a 19th century brickworks that caps the prehistoric components. Studies of site 36AL480 have been ongoing since 2000.

Area 2, the current project area, is located on the southeastern edge of the Casting Basin. The area is roughly 0.42 acres in size. Area 3 is 0.48 acre in size, and is located approximately 30 meters southeast of Area 2. Field investigations of Area 2 and Area 3 will complete the planned field components of the data recovery study. Field investigations in Area 3 will be conducted using volunteer participation.

VOLUNTEER PARTICIPATION

A full-time Volunteer Coordinator will be employed in order to coordinate volunteer recruitment, supervise volunteer field activities, and to assure volunteers comply with the safety plan developed for the site. All media contacts for the project will be arranged through the Government.

Kathy Furgerson will serve as the Volunteer Coordinator and will direct the on-site public education program during the Area 2 excavations at site 36AL480. Contact information is as follows:

Kathy Furgerson, Volunteer Coordinator
Greenhorne & O'Mara, Inc.
c/o Four Points Barcelo Hotel
1 Industry Drive
Pittsburgh, PA 15275

Cell phone: 443-691-0196
Email: kfurgerson@g-and-o.com

Area 3 Excavations

In order to provide an opportunity for hands-on experience, volunteers will work in the approximately 45 m² block in Area 3 started by the previous volunteer program at the site. This area is divided into three 3 X 5 m blocks. The two blocks on either end of the total block area have been partially excavated, and the middle 3 X 5 block is unexcavated. The two in-progress 3 X 5 m blocks will continue to be excavated in 1 X 1 m units and arbitrary 10 cm levels within natural strata. Excavation-level designations will conform to those used for the previous excavations.

The number of volunteers per session will determine the excavation strategy, but we anticipate bringing at least the two in-progress blocks to a depth of at least 80 cm bsgs. Large groups of volunteers (greater than 15) will be split between the two in-progress blocks for safety and efficiency considerations. If the numbers of volunteers permit, the middle 3 X 5 block will also be excavated. Surveying of the excavation area, including measuring depths, will be conducted a Top-Con laser transit.

Volunteer excavations will be conducted to the same exacting standards as applied to the main excavation block in Area 2 for comparability of data. The Data Recovery Plan details the field methods to be used for the Area 2 excavations and this plan will be followed for the Area 3 volunteer excavations. In addition, previous excavation data from the 3 x 5 m block will be reviewed in order to insure consistency (e.g., use of same grid points and level designations) between the two volunteer excavation programs.

To summarize, methods in Area 3 will include excavation of 1 x 1 m test units in 10 cm levels within natural strata. All soils will be hand excavated and screened through ¼ inch mesh hardware cloth to insure maximum recovery of artifacts. Data will be recorded on level forms (indicating at a minimum the top and bottom elevations, soil texture, Munsell soil color, degree of disturbance, and associated artifacts). The Government Geomorphologist will provide information on soil horizons, color, and texture. Forms will also include reference data for photographs, plans, profiles, and samples (e.g., ¹⁴C, flotation). In addition, detailed narrative notes concerning all aspects of the excavations (e.g., methods, field conditions, in-field analysis and interpretation) will be made in supervisory staff notebooks.

Site mapping and elevations will be completed with the use of a surveying instrument. Photographs of representative test units and those with features will be taken. All photographs will be recorded on a photograph log that documents the roll and frame number, film speed, direction, and description of the photograph.

Daily logs will be kept for artifact bags, features, flotation samples, ¹⁴C samples, photographs, and elevation data. Additional documentation will be completed as

appropriate, including photographs (black and white prints, color slide, and daily digital) and video recording (daily and weekly).

Plan maps of excavation floors will be drawn to scale if features, fire-cracked rock, or scattered charcoal are present. Soil profiles will be drawn in cooperation with the Government Geomorphologist. A field map will be generated to show the location of test units. The field map will also show the locations of cultural features and disturbed soils, if present. The distribution of prehistoric artifacts and fire-cracked rock will be mapped by level using artifact counts generated in the field lab.

It is anticipated that no human remains will be encountered during the field investigations. However, if human remains are found, work in that portion of the project area will be halted and the Government will be informed immediately so that notification and consultation in accordance with the Pennsylvania Historic and Museum Commission's Burial Policy for the Discovery of Unmarked Human Burials (Policy I) can be initiated.

Prior to excavation, the volunteers will be briefed on the goals and methods of the archaeological excavation and field laboratory activities, as well as the safety plan. A rotation schedule will be established so that volunteers can experience both field and laboratory work. This schedule will be determined based on the number of volunteers available during any given week. The anticipated schedule for rotation may include one or more days in the field and one or more days in the field lab. Scheduling will be flexible to allow volunteers to work half days if they so desire. Rotation from field to lab may occur during the course of the day to allow volunteers the opportunity to experience both field and lab activities.

Area 3 Volunteer Excavation Schedule

The proposed schedule is for 5 one-week sessions and five weekend sessions. The volunteer excavations should begin no later than October 7th, and will last until November 10th. The weekday and weekend sessions will run concurrently. The volunteer workday will start at 8am and end at 3:30pm every day. This shortened daily schedule will allow the archaeologists to set up and close the site daily with minimal disruption to the project schedule. In addition, all volunteers will park at a location designated by the Government, and will be escorted to and from the site as a group to minimize traffic and disruption. If designated parking is close enough, the volunteers will be escorted on foot with Government permission. Otherwise, they will be shuttled in G&O/KCI vehicles.

In the event the archaeologists' workday schedule changes (due to changing light conditions in the autumn months), the volunteer work schedule will be adjusted accordingly, and will begin approximately 30 minutes to one hour after the archaeologists begin in the morning, and will end one hour before the archaeologists stop work at the end of the day.

Field Laboratory

In addition to field opportunities, volunteers will be recruited for assistance in the field lab. The volunteer field lab sessions will run concurrent with the field excavations at Area 3. These volunteers will be closely supervised by the field lab staff and will perform tasks such as washing, data entry, and rebagging artifacts. Laboratory activities to be performed by the volunteers will be determined by the field lab supervisor on a daily basis and as particular needs demand.

Field Laboratory Schedule

The proposed schedule is for 5 one-week sessions and five weekend sessions, and will run concurrent with the volunteer field excavations (as described in Section 2.1.1). The field lab should begin no later than October 7th, and will run through November 10th, with the weekday and weekend sessions running concurrently. The volunteer workday will start at 8 am and end at 3:30 pm every day. This shortened daily schedule will allow the field laboratory supervisor to set up and close the laboratory daily with minimal disruption to the project schedule.

Area 2 Site Tours

In addition to volunteer opportunities in Area 3 and the field laboratory, tours of the Area 2 excavations will be conducted. The goals of the site tours are to educate the public about the goals of archaeology and cultural resources management (CRM) using the Leetsdale Area 2 excavations as an example of CRM at work. Visitors will be informed about the project background (e.g., history, goals of the project, Area 2 excavations), and will be able to observe the current excavations in progress. The tour guide will hold a question and answer session for the visitors towards the end of the tour.

Tour group size will generally be limited to 10 – 15 people, however, in order to accommodate school groups or other organizations (e.g., Boy Scouts), the tour group may include up to 30 visitors. Visitors will be park at an offsite location designated by the Government, and will be shuttled in vehicles to and from the site by G&O/KCI personnel. Directions to the parking area will be available either verbally (from the Volunteer Coordinator) or as a printed map to be sent to tour participants.

A listing of the tour dates and times will be made available to the public, preferably through contact with the Volunteer Coordinator. Scheduling of tours will be coordinated through the Volunteer Coordinator. Every effort will be made to accommodate tour groups, including scheduling alternate tour days if necessary. Unscheduled visitors will be allowed to participate in a tour if they arrive at the scheduled tour times. Otherwise, they will be given the tour schedule, scheduled for the next available tour time, and will be escorted off site. Unscheduled visits will be discouraged, though every opportunity will be made to accommodate the public without disruption to the project and project schedule. In an effort to discourage unscheduled

visits, easily visible signs will be posted at the perimeter gates listing tour dates, tour times, and contact information for scheduling tours.

Visitors participating in site tours will be briefed on proper site conduct and safety issues. Due to safety concerns, an age restriction of 10 years or older will be imposed on the site tours. Visitors must wear hard hats and safety glasses (provided by G&O/KCI). In addition, visitors will be advised on appropriate clothing for the tour (e.g., trousers recommended; sturdy shoes such as walking shoes or hiking boots recommended; no sandals, open-toed shoes, platform shoes, etc.). Designated areas for visitors will be clearly marked so as not to interfere with the Area 2 excavations.

Site tours in Area 2 will be conducted by the Assistant Principal Investigator (JT Marine), Volunteer Coordinator (Kathy Furgerson), and/or Crew Chiefs (Belinda Cox, Jeff Duncan, Igor Nurabas, and JT Sutton).

Site Tour Schedule

Ten site tour days will be scheduled during the course of the Area 2 excavations. Tours will begin October 8th, and will occur on Tuesdays and Thursdays for a 5-week period (ending in November). Five tours a day, lasting approximately one hour each, are proposed. The table below outlines the proposed tour dates, days, and times.

Tour Dates and Times

Week	Date	Day	Tour Times
1	October 8 th	Tuesday	8:45am, 10:00am, 11:15am, 1:15pm, 2:30pm
	October 10 th	Thursday	8:45am, 10:00am, 11:15am, 1:15pm, 2:30pm
2	October 15 th	Tuesday	8:45am, 10:00am, 11:15am, 1:15pm, 2:30pm
	October 17 th	Thursday	8:45am, 10:00am, 11:15am, 1:15pm, 2:30pm
3	October 22 nd	Tuesday	8:45am, 10:00am, 11:15am, 1:15pm, 2:30pm
	October 24 th	Thursday	8:45am, 10:00am, 11:15am, 1:15pm, 2:30pm
4	October 29 th	Tuesday	8:45am, 10:00am, 11:15am, 1:15pm, 2:30pm
	October 31 st	Thursday	8:45am, 10:00am, 11:15am, 1:15pm, 2:30pm
5	November 4 th	Tuesday	8:45am, 10:00am, 11:15am, 1:15pm, 2:30pm
	November 7 th	Thursday	8:45am, 10:00am, 11:15am, 1:15pm, 2:30pm

VOLUNTEER MANAGEMENT

Supervision

The Volunteer Coordinator, Kathleen A. Furgerson, will be responsible for arranging and conducting volunteer excavations in Area 3. Upon approval from the Government, Ms. Furgerson is also the proposed alternate Health and Safety Representative for the volunteer excavations. Ms. Furgerson will assure that all volunteers are in full compliance with the safety plan, will supervise field activities, and coordinate the recruiting of volunteers. The coordinator will work closely with the

Government, the construction contractor, and field and laboratory staff to develop and schedule volunteer activities.

The Volunteer Coordinator/Health and Safety Representative will be present when volunteers are on site. In addition, field staff will be employed to assist in training and supervising the volunteers. A supervisory ratio of 1 field archaeologist to 5 volunteers will be used for the Area 3 excavations.

Briefings on safety, the characteristics of the site, and the methods and goals of the excavations and laboratory analysis will be conducted by the Volunteer Coordinator, Health and Safety Representative, and Field Laboratory Supervisor.

Recruiting and Volunteer Requirements

G&O will recruit volunteers through established contacts such as local Society for Pennsylvania Archaeology, Inc. (SPA) chapters and the Carnegie Museum of Natural History, as well as local historical societies and through media coverage advertising volunteer opportunities (with prior approval by the Government). We have contacted Richard George, Staff Archaeologist at the Carnegie Museum of Natural History, who has agreed to assist us in recruiting volunteers and advertising the public program.

Other means of reaching the public to inform them about volunteer opportunities and tours will include contacts with Old Economy Village, local schools, libraries, and local businesses. Advertising will be done by contacting people by phone (i.e., Richard George, Pat Liephart, Lisa Stevens) or by placing fliers with schools, libraries, and businesses. Any printed material advertising the volunteer program will be submitted to the Government for approval prior to distribution to the public.

G&O personnel will brief potential volunteers on the site conditions and appropriate clothing (e.g., sturdy shoes, trousers, shirts with sleeves) to be worn on-site. Appropriate footwear includes hiking boots or other leather, lace-up shoe. Inappropriate footwear includes sandals, open-toed shoes, platform shoes, high heels, clogs, canvas shoes, or other summer-type sneaker or shoe. Participants will be strongly encouraged to wear boots (whether hiking boot or work boot) since they will be working with shovels. All volunteers will be required to wear hard hats and safety glasses (provided by G&O/KCI) while participating in the Area 3 excavations. G&O/KCI will provide leather work gloves for the volunteers' use.

Volunteers must be physically capable of performing field and laboratory work, and will be assessed accordingly before participating in the volunteer program. Volunteers will be required to sign and submit the following documents (attached as Appendix A to this document) prior to participating in the volunteer excavations:

1. A U.S. Government "Agreement for Individual/Group Volunteer Services" form;
2. A U.S. Government "Parental Approval" form for anyone under the age of 18;

3. A U.S. Government “SF 256 Self Identification of Handicap” form for anyone with a handicap that may affect their ability to participate in the volunteer effort;
4. A G&O corporate liability release; and
5. Health and Safety Plan agreement form acknowledging an understanding of all safety regulations.

All forms requiring Government approval will be submitted to Conrad Weiser, Planning Branch, USACE. These forms must be approved by the Government prior to allowing volunteers on the site.

As part of the proposed project, G&O/KCI will develop a Health and Safety Plan that all staff and volunteers must follow. G&O/KCI will be responsible, however, for assuring full compliance by all persons on-site. Volunteers not conforming to the health and safety standards will be removed from the site.

The number of volunteers will be regulated appropriate to work needs, safety concerns, and available space, though will not exceed 25 people per day. We anticipate an average of 15 people each volunteer day. All volunteers will perform tasks commensurate with their experience and skills, though limited on-site training and education will occur. No more than five lab volunteers will be present in the field lab each day.

Due to safety concerns and the personal protective equipment (i.e., hard hat, safety glasses) required for people to wear, no one under the age of 12 years will be allowed to participate in the Area 3 volunteer excavations. G&O/KCI reserves the right to request volunteers immediately leave the site if their actions in any way interfere with the Health and Safety Plan, endanger others, or potentially result in the loss of archaeological data.

Documentation

A “Volunteer Service Record” will be kept by the Volunteer Coordinator for each volunteer who participated in the excavations and laboratory activities. The form will include the name of the volunteer, the date(s) of service, job title, location (field or lab) and hours worked each day. Monthly and cumulative totals will be kept as well.

G&O/KCI will be responsible for documenting volunteer data and field results. This information will include management files, daily and weekly video recording, still photographs (black and white, color, digital), weekly reports, and results of volunteer activities, which may then be published on the Government’s project web site. The data gathered as a result of the volunteer excavations will be fully incorporated into the analysis, interpretations, and reports.

HEALTH AND SAFETY

As part of the proposed project, G&O/KCI will develop a Health and Safety Plan that all staff and volunteers must follow. G&O/KCI will be responsible, however, for assuring full compliance by all persons on-site. All volunteers will be required to read and acknowledge their understanding of the Health and Safety Plan.

G&O will provide hardhats, safety glasses, and leather work gloves, but the volunteers will be responsible for wearing appropriate clothing. Volunteers not conforming to the health and safety standards will not be allowed on site. G&O reserves the right to request volunteers immediately leave the site if their actions in any way interfere with the Health and Safety Plan, endanger others, or potentially result in the loss of archaeological data.

Porta-john facilities, a potable water supply for drinking, non-potable water supply for washing, soap, paper towels, cups, and trash receptacles will be provided in Area 3 during the volunteer excavations. Adequate shelter to protect from inclement weather (e.g., heat and sun, wind, rain) will be provided for volunteer use in Area 3. Parking will be at a location designated by the Government, and volunteers will be escorted to and from the site area by G&O/KCI employees.

For volunteers and site tours, G&O/KCI will coordinate with the Government and on-site safety staff to assure that all safety measures are followed.

James Skocik, the Health and Safety Representative, is designated to coordinate access control and security at the site. Kathy Furgerson is proposed as an alternate Health and Safety Representative for the Area 3 excavations. Mr. Skocik will be on site the first day of work to brief all contract staff and volunteers on the health and safety measures required. Workers and volunteers will park at a location determined by Government site management personnel. All required Personal Protective Equipment (PPE) will be worn prior to entering the site. PPE requirements are discussed in the Health and Safety Plan previously submitted to the Government.

Volunteers will be responsible for:

- Familiarity with the Health and Safety Plan.
- Complying with the contents of the Health and Safety Plan.
- Being alert to identified and unidentified hazards and reporting unidentified hazards to the Health and Safety Representative as soon as possible.
- Conducting site activities in an orderly and appropriate manner.
- Reporting accidents/injuries to the Health and Safety Representative (Ms. Furgerson or Mr. Skocik) as soon as possible.
- Acceptance of the Health and Safety Plan by each volunteer will be signified by signature, acknowledging that each volunteer is responsible for following the Plan.

APPENDIX 9B: VOLUNTEER BLOCK ARTIFACT INVENTORY

2001 Field Season

Catalog Number	Unit Coordinates	L_1	L_2	L_3	Depth	Description 1	Description 2	Additional Traits	Quantity
1871	N 95 E 220	AB	F14	1	214.77- 214.67	Historic	Glass	Unidentified	1
1872	N 95 E 220	AB	F14	1	214.85- 214.76	Lithic	Debitage		17
1872	N 95 E 220	AB	F14	1	214.85- 214.76	Lithic	FCR	667.8	13
1872	N 95 E 220	AB	F14	1	214.85- 214.76	Lithic	Spheroid Core/Bipolar	Bipolar	1
1873	N 95 E 221	AB	F14	1	214.86- 214.75	Lithic	Core/Split Piece		1
1873	N 95 E 221	AB	F14	1	214.86- 214.75	Lithic	Debitage		22
1873	N 95 E 221	AB	F14	1	214.86- 214.75	Lithic	FCR	1359.2	18
2048	N 95 E 221	AB	F14	2	214.75-	Lithic	Debitage		29
2048	N 95 E 221	AB	F14	2	214.75-	Lithic	FCR	902	17
2048	N 95 E 221	AB	F14	2	214.75-	Pottery Prehistoric	Body	Cord-marked	1
1874	N 95 E 222	AB	F14	1	214.86- 214.77	Historic	Glass	Unidentified	1
1874	N 95 E 222	AB	F14	1	214.86- 214.77	Lithic	Debitage		26
1874	N 95 E 222	AB	F14	1	214.86- 214.77	Lithic	FCR	639.1	12
2049	N 95 E 222	AB	F14	2	214.77- 214.65	Lithic	Debitage		90
2049	N 95 E 222	AB	F14	2	214.77- 214.65	Lithic	FCR	855.7	22
2049	N 95 E 222	AB	F14	2	214.77- 214.65	Pottery Prehistoric	Body	Smoothed over cord-marked	1

2001 Field Season

Catalog Number	Unit Coordinates	L_1	L_2	L_3	Depth	Description 1	Description 2	Additional Traits	Quantity
2049	N 95 E 222	AB	F14	2	214.77- 214.65	Pottery Prehistoric	Body	Cord-marked	1
2049	N 95 E 222	AB	F14	2	214.77- 214.65	Pottery Prehistoric	Body	Cord-marked	1
2049	N 95 E 222	AB	F14	2	214.77- 214.65	Pottery Prehistoric	Spalled/Eroded	Eroded	1
2049	N 95 E 222	AB	F14	2	214.77- 214.65	Pottery Prehistoric	Spalled/Eroded	Eroded	1
1875	N 96 E 220	AB	F14	1	214.83- 214.72	Lithic	Debitage		52
1875	N 96 E 220	AB	F14	1	214.83- 214.72	Lithic	FCR	465.1	16
1875	N 96 E 220	AB	F14	1	214.83- 214.72	Lithic	Spheroid Core		1
1875	N 96 E 220	AB	F14	1	214.83- 214.72	Pottery Prehistoric	Body	Smooth	1
2050	N 96 E 220	AB	F14	2	214.77-	Lithic	Debitage		20
2050	N 96 E 220	AB	F14	2	214.77-	Lithic	FCR	139.6	4
1876	N 96 E 221	AB	F14	1	214.84- 214.74	Lithic	Debitage		30
1876	N 96 E 221	AB	F14	1	214.84- 214.74	Lithic	FCR	915.9	27
1877	N 96 E 222	AB	F14	1	214.87- 214.76	Historic	Ceramic	Common Brick	1
1877	N 96 E 222	AB	F14	1	214.87- 214.76	Lithic	Debitage		21
1877	N 96 E 222	AB	F14	1	214.87- 214.76	Lithic	FCR	613.1	10
1877	N 96 E 222	AB	F14	1	214.87- 214.76	Pottery Prehistoric	Body	Cord-marked	2

2001 Field Season

Catalog Number	Unit Coordinates	L_1	L_2	L_3	Depth	Description 1	Description 2	Additional Traits	Quantity
1878	N 96 E 222	AB	F14	2	214.76-214.66	Lithic	Debitage		41
1878	N 96 E 222	AB	F14	2	214.76-214.66	Lithic	FCR	811.5	12
1878	N 96 E 222	AB	F14	2	214.76-214.66	Lithic	Spheroid Core		1
1878	N 96 E 222	AB	F14	2	214.76-214.66	Lithic	Split Piece Core		1
1878	N 96 E 222	AB	F14	2	214.76-214.66	Pottery Prehistoric	Body	Cord-marked	1
1878	N 96 E 222	AB	F14	2	214.76-214.66	Pottery Prehistoric	Spalled/Eroded	Eroded	1
2051	N 97 E 220	AB	F14	1	214.85-214.73	Lithic	Debitage		33
2051	N 97 E 220	AB	F14	1	214.85-214.73	Lithic	FCR	314.5	12
2051	N 97 E 220	AB	F14	2	214.73-214.63	Lithic	Debitage		76
2051	N 97 E 220	AB	F14	2	214.73-214.63	Lithic	FCR	524.5	15
2051	N 97 E 220	AB	F14	2	214.73-214.63	Lithic	Unmodified Pebble	Whole	1
2051	N 97 E 220	AB	F14	2	214.73-214.63	Pottery Prehistoric	Body	Smooth	1
1879	N 97 E 221	AB	F14	1	214.88-214.77	Historic	Ceramic	Stoneware, grey-bodied	1
1879	N 97 E 221	AB	F14	1	214.88-214.77	Lithic	Debitage		25
1879	N 97 E 221	AB	F14	1	214.88-214.77	Lithic	FCR	719.2	20

2001 Field Season

Catalog Number	Unit Coordinates	L_1	L_2	L_3	Depth	Description 1	Description 2	Additional Traits	Quantity
2052	N 97 E 221	AB	F14	2	214.77-	ceramic	Refined Earthenware	Rockingham	2
2052	N 97 E 221	AB	F14	2	214.77-	Lithic	Debitage		3
2052	N 97 E 221	AB	F14	2	214.77-	Lithic	FCR	204.3	4
1880	N 97 E 222	AB	F14	1	214.90- 214.79	Lithic	Debitage		14
1880	N 97 E 222	AB	F14	1	214.90- 214.79	Lithic	FCR	475.6	14
2053	N 97 E 222	AB	F14	2	214.79-	Lithic	Biface	Whole	1
2053	N 97 E 222	AB	F14	2	214.79-	Lithic	Debitage		56
2053	N 97 E 222	AB	F14	2	214.79-	Lithic	FCR	760.8	14
2053	N 97 E 222	AB	F14	2	214.79-	Pottery Prehistoric	Body	Smooth	1
1881	N 98 E 220	AB	F14	1	214.87- 214.73	Lithic	Debitage		35
1881	N 98 E 220	AB	F14	1	214.87- 214.73	Lithic	FCR	244.7	6
1881	N 98 E 220	AB	F14	1	214.87- 214.73	Lithic	Unmodified Pebble	Whole	1
1881	N 98 E 220	AB	F14	1	214.87- 214.73	Lithic	Unmodified Pebble	Whole	1
1881	N 98 E 220	AB	F14	1	214.87- 214.73	Pottery Prehistoric	Body	Smooth	1
2054	N 98 E 220	AB	F14	2	214.73- 214.63	Lithic	Bipolar Core Frag	Bipolar	1
2054	N 98 E 220	AB	F14	2	214.73- 214.63	Lithic	Debitage		79
2054	N 98 E 220	AB	F14	2	214.73- 214.63	Lithic	FCR	438.9	17

2001 Field Season

Catalog Number	Unit Coordinates	L_1	L_2	L_3	Depth	Description 1	Description 2	Additional Traits	Quantity
2054	N 98 E 220	AB	F14	2	214.73- 214.63	Pottery Prehistoric	Spalled/Eroded	Eroded	1
2054	N 98 E 220	AB	F14	2	214.73- 214.63	Pottery Prehistoric	Spalled/Eroded	Eroded	1
1882	N 98 E 221	AB	F14	1	214.87- 214.72	Historic	Ceramic	Common Brick	1
1882	N 98 E 221	AB	F14	1	214.87- 214.72	Historic	Ceramic	Stoneware, grey bodied	1
1882	N 98 E 221	AB	F14	1	214.87- 214.72	Historic	Misc	Coal	1
1882	N 98 E 221	AB	F14	1	214.87- 214.72	Lithic	Debitage		31
1882	N 98 E 221	AB	F14	1	214.87- 214.72	Lithic	FCR	688.8	12
1882	N 98 E 221	AB	F14	1	214.87- 214.72	Lithic	Spheroid Core/Bipolar	Bipolar	1
2055	N 98 E 221	AB	F14	2	214.72- 214.62	Lithic	Biface	Distal	1
2055	N 98 E 221	AB	F14	2	214.72- 214.62	Lithic	Debitage		53
2055	N 98 E 221	AB	F14	2	214.72- 214.62	Lithic	FCR	809	21
2055	N 98 E 221	AB	F14	2	214.72- 214.62	Pottery Prehistoric	Spalled/Eroded	Eroded	1
1883	N 98 E 222	AB	F14	1	214.91- 214.81	Lithic	Debitage		16
1883	N 98 E 222	AB	F14	1	214.91- 214.81	Lithic	FCR	440.3	6
2056	N 98 E 222	AB	F14	2	214.81- 214.69	Historic	Glass	Wine Bottle	1

2001 Field Season

Catalog Number	Unit Coordinates	L_1	L_2	L_3	Depth	Description 1	Description 2	Additional Traits	Quantity
2056	N 98 E 222	AB	F14	2	214.81- 214.69	Historic	Miscellaneous	Iron slag	1
2056	N 98 E 222	AB	F14	2	214.81- 214.69	Lithic	Debitage		45
2056	N 98 E 222	AB	F14	2	214.81- 214.69	Lithic	FCR	214.3	7
1884	N 99 E 220	AB	F14	1	214.82- 214.72	Lithic	Debitage		22
1884	N 99 E 220	AB	F14	1	214.82- 214.72	Lithic	FCR	1079.8	11
1884	N 99 E 220	AB	F14	1	214.82- 214.72	Point Fragment	Untyped	Base Fragment	1
2057	N 99 E 220	AB	F14	2	214.72- 214.62	Lithic	Debitage		52
2057	N 99 E 220	AB	F14	2	214.72- 214.62	Lithic	FCR	448.5	9
2057	N 99 E 220	AB	F14	2	214.72- 214.62	Point	Forest Notched	Base Only	1
2057	N 99 E 220	AB	F14	2	214.72- 214.62	Point	Untyped	Base Fragment	1
1885	N 99 E 221	AB	F14	1	214.87- 214.76	Lithic	Debitage		27
1885	N 99 E 221	AB	F14	1	214.87- 214.76	Lithic	FCR	343.4	18
1885	N 99 E 221	AB	F14	1	214.87- 214.76	Lithic	Spheroid Core		1
1885	N 99 E 221	AB	F14	1	214.87- 214.76	Lithic	Spheroid Core		1
2058	N 99 E 221	AB	F14	2	214.76- 214.66	Historic	Miscellaneous	Coal	1
2058	N 99 E 221	AB	F14	2	214.76- 214.66	Lithic	Debitage		62

2001 Field Season

Catalog Number	Unit Coordinates	L_1	L_2	L_3	Depth	Description 1	Description 2	Additional Traits	Quantity
2058	N 99 E 221	AB	F14	2	214.76- 214.66	Lithic	FCR	469.8	12
2058	N 99 E 221	AB	F14	2	214.76- 214.66	Pottery Prehistoric	Body	Cord-marked	1
1886	N 99 E 222	AB	F14	1	214.90- 214.80	Historic	Glass	Bottle, unid	1
1886	N 99 E 222	AB	F14	1	214.90- 214.80	Lithic	Debitage		16
1886	N 99 E 222	AB	F14	1	214.90- 214.80	Lithic	Expedient Tool	Whole	1
1886	N 99 E 222	AB	F14	1	214.90- 214.80	Lithic	FCR	515.2	27
1886	N 99 E 222	AB	F14	1	214.90- 214.80	Pottery Prehistoric	Body	Cord-marked	1
2059	N 99 E 222	AB	F14	2	214.80- 214.70	Lithic	Debitage		32
2059	N 99 E 222	AB	F14	2	214.80- 214.70	Lithic	FCR	400.2	7

2002 Field Season

Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3714.00	95	215	I-1	214.91	214.81	Fire-cracked rock	Sandstone	22
3714.00	95	215	I-1	214.91	214.81	Flake Fragment	Onondaga chert	1
3714.00	95	215	I-1	214.91	214.81	Shatter	Onondaga chert	1
3714.00	95	215	I-1	214.91	214.81	Middle stage reduction flake	Onondaga chert	2
3714.00	95	215	I-1	214.91	214.81	Flake Fragment	Brush Creek chert	2
3714.00	95	215	I-1	214.91	214.81	Middle stage reduction flake	Brush Creek chert	1
3714.00	95	215	I-1	214.91	214.81	Flake Fragment	Sandstone	1
3715.00	95	215	I-2	214.81	214.69	Flake Fragment	Onondaga chert	1
3715.00	95	215	I-2	214.81	214.69	Flake Fragment	Sandstone	1
3715.00	95	215	I-2	214.81	214.69	Flake Fragment	Onondaga chert	1
3715.00	95	215	I-2	214.81	214.69	Flake Fragment	Onondaga chert	5
3715.00	95	215	I-2	214.81	214.69	Flake Fragment	Onondaga chert	1
3715.00	95	215	I-2	214.81	214.69	Fire-cracked rock	Sandstone	8
3715.00	95	215	I-2	214.81	214.69	Flake Fragment	Brush Creek chert	1
3715.00	95	215	I-2	214.81	214.69	Middle stage reduction flake	Uniontown chert	1
3715.00	95	215	I-2	214.81	214.69	Late stage reduction flake	Uniontown chert	1
3715.00	95	215	I-2	214.81	214.69	Late stage reduction flake	Onondaga chert	2
3715.00	95	215	I-2	214.81	214.69	Middle stage reduction flake	Onondaga chert	1
3715.00	95	215	I-2	214.81	214.69	Middle stage reduction flake	Onondaga chert	1
3715.00	95	215	I-2	214.81	214.69	Flake Fragment	Vanport chert	1
3715.00	95	215	I-2	214.81	214.69	Flake Fragment	Onondaga chert	1
3716.00	95	216	I-1	214.89	214.79	Flake Fragment	Brush Creek chert	1
3716.00	95	216	I-1	214.89	214.79	Middle stage reduction flake	Brush Creek chert	1
3716.00	95	216	I-1	214.89	214.79	Middle stage reduction flake	Brush Creek chert	2
3716.00	95	216	I-1	214.89	214.79	Flake Fragment	Onondaga chert	1
3716.00	95	216	I-1	214.89	214.79	Late stage reduction flake	Onondaga chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3716.00	95	216	I-1	214.89	214.79	Late stage reduction flake	Onondaga chert	1
3716.00	95	216	I-1	214.89	214.79	Middle stage reduction flake	Onondaga chert	1
3716.00	95	216	I-1	214.89	214.79	Flake Fragment	Quartzite	1
3716.00	95	216	I-1	214.89	214.79	Late stage reduction flake	Brush Creek chert	2
3716.00	95	216	I-1	214.89	214.79	Middle stage reduction flake	Onondaga chert	1
3716.00	95	216	I-1	214.89	214.79	Other projectile point	Brush Creek chert	1
3716.00	95	216	I-1	214.89	214.79	Fire-cracked rock	Sandstone	2
3717.00	95	217	I-1	214.88	214.79	Flake Fragment	Brush Creek chert	2
3717.00	95	217	I-1	214.88	214.79	Fire-cracked rock	Sandstone	11
3717.00	95	217	I-1	214.88	214.79	Flake Fragment	Other raw material	1
3717.00	95	217	I-1	214.88	214.79	Flake Fragment	Onondaga chert	4
3717.00	95	217	I-1	214.88	214.79	Late stage reduction flake	Onondaga chert	4
3717.00	95	217	I-1	214.88	214.79	Middle stage reduction flake	Onondaga chert	1
3717.00	95	217	I-1	214.88	214.79	Middle stage reduction flake	Brush Creek chert	1
3717.00	95	217	I-1	214.88	214.79	Charcoal sample		1
3717.00	95	217	I-1	214.88	214.79	Slag		1
3718.00	95	217	I-2	214.79	214.68	Early stage reduction flake	Onondaga chert	1
3718.00	95	217	I-2	214.79	214.68	Flake Fragment	Onondaga chert	1
3718.00	95	217	I-2	214.79	214.68	Middle stage reduction flake	Onondaga chert	1
3718.00	95	217	I-2	214.79	214.68	Flake Fragment	Onondaga chert	4
3718.00	95	217	I-2	214.79	214.68	Middle stage reduction flake	Onondaga chert	1
3718.00	95	217	I-2	214.79	214.68	Early stage reduction flake	Onondaga chert	1
3718.00	95	217	I-2	214.79	214.68	Middle stage reduction flake	Brush Creek chert	1
3718.00	95	217	I-2	214.79	214.68	Middle stage reduction flake	Onondaga chert	1
3718.00	95	217	I-2	214.79	214.68	Flake Fragment	Rhyolite	1
3718.00	95	217	I-2	214.79	214.68	Late stage reduction flake	Brush Creek chert	1
3718.00	95	217	I-2	214.79	214.68	Flake Fragment	Brush Creek chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3718.00	95	217	I-2	214.79	214.68	Late stage reduction flake	Uniontown chert	1
3718.00	95	217	I-2	214.79	214.68	Late stage reduction flake	Onondaga chert	1
3718.00	95	217	I-2	214.79	214.68	Middle stage reduction flake	Onondaga chert	7
3718.00	95	217	I-2	214.79	214.68	Flake Fragment	Onondaga chert	1
3718.00	95	217	I-2	214.79	214.68	Fire-cracked rock	Sandstone	7
3718.00	95	217	I-2	214.79	214.68	Late stage reduction flake	Onondaga chert	1
3719.00	95	218	I-1	214.89	214.78	Early stage reduction flake	Brush Creek chert	1
3719.00	95	218	I-1	214.89	214.78	Flake Fragment	Onondaga chert	1
3719.00	95	218	I-1	214.89	214.78	Flake Fragment	Onondaga chert	1
3719.00	95	218	I-1	214.89	214.78	Flake Fragment	Onondaga chert	1
3719.00	95	218	I-1	214.89	214.78	Flake Fragment	Onondaga chert	8
3719.00	95	218	I-1	214.89	214.78	Middle stage reduction flake	Onondaga chert	1
3719.00	95	218	I-1	214.89	214.78	Middle stage reduction flake	Onondaga chert	3
3719.00	95	218	I-1	214.89	214.78	Middle stage reduction flake	Brush Creek chert	1
3719.00	95	218	I-1	214.89	214.78	Late stage reduction flake	Onondaga chert	3
3719.00	95	218	I-1	214.89	214.78	Flake Fragment	Brush Creek chert	1
3719.00	95	218	I-1	214.89	214.78	Early stage reduction flake	Brush Creek chert	1
3719.00	95	218	I-1	214.89	214.78	Middle stage reduction flake	Upper Mercer chert	1
3719.00	95	218	I-1	214.89	214.78	Whiteware, Plain	Rim - Unidentifiable	1
3719.00	95	218	I-1	214.89	214.78	Whiteware, Plain	Body - Unidentifiable	1
3719.00	95	218	I-1	214.89	214.78	Fire-cracked rock	Sandstone	10
3719.00	95	218	I-1	214.89	214.78	Early stage reduction flake	Onondaga chert	1
3720.00	95	218	I-2	214.79	214.68	Flake Fragment	Onondaga chert	1
3720.00	95	218	I-2	214.79	214.68	Slag		2
3720.00	95	218	I-2	214.79	214.68	Late stage reduction flake	Onondaga chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3720.00	95	218	I-2	214.79	214.68	Middle stage reduction flake	Onondaga chert	1
3720.00	95	218	I-2	214.79	214.68	Middle stage reduction flake	Brush Creek chert	1
3720.00	95	218	I-2	214.79	214.68	Early stage reduction flake	Brush Creek chert	1
3720.00	95	218	I-2	214.79	214.68	Fire-cracked rock	Sandstone	56
3720.00	95	218	I-2	214.79	214.68	Flake Fragment	Brush Creek chert	1
3720.00	95	218	I-2	214.79	214.68	Middle stage reduction flake	Brush Creek chert	3
3720.00	95	218	I-2	214.79	214.68	Flake Fragment	Onondaga chert	3
3720.00	95	218	I-2	214.79	214.68	Flake Fragment	Onondaga chert	1
3720.00	95	218	I-2	214.79	214.68	Middle stage reduction flake	Onondaga chert	2
3721.00	95	219	I-1	214.91	214.79	Middle stage reduction flake	Brush Creek chert	1
3721.00	95	219	I-1	214.91	214.79	Flake Fragment	Brush Creek chert	1
3721.00	95	219	I-1	214.91	214.79	Late stage reduction flake	Brush Creek chert	4
3721.00	95	219	I-1	214.91	214.79	Middle stage reduction flake	Brush Creek chert	1
3721.00	95	219	I-1	214.91	214.79	Flake Fragment	Onondaga chert	1
3721.00	95	219	I-1	214.91	214.79	Late stage reduction flake	Onondaga chert	1
3721.00	95	219	I-1	214.91	214.79	Fire-cracked rock	Sandstone	11
3721.00	95	219	I-1	214.91	214.79	Middle stage reduction flake	Onondaga chert	4
3721.00	95	219	I-1	214.91	214.79	Stoneware, Gray Salt-glazed, Plain		1
3721.00	95	219	I-1	214.91	214.79	Indeterminate container glass	Olive green	1
3721.00	95	219	I-1	214.91	214.79	Early stage reduction flake	Brush Creek chert	1
3722.00	95	219	I-2	214.79	214.70	Flake Fragment	Onondaga chert	5
3722.00	95	219	I-2	214.79	214.70	Early stage reduction flake	Brush Creek chert	1
3722.00	95	219	I-2	214.79	214.70	Flake Fragment	Onondaga chert	1
3722.00	95	219	I-2	214.79	214.70	Biface fragments	Vanport chert	1
3722.00	95	219	I-2	214.79	214.70	Fire-cracked rock	Sandstone	13
3722.00	95	219	I-2	214.79	214.70	Late stage reduction flake	Uniontown chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3723.00	95	219	I-3	214.70	214.63	Flake Fragment	Brush Creek chert	1
3723.00	95	219	I-3	214.70	214.63	Middle stage reduction flake	Brush Creek chert	1
3723.00	95	219	I-3	214.70	214.63	Middle stage reduction flake	Brush Creek chert	1
3723.00	95	219	I-3	214.70	214.63	Middle stage reduction flake	Brush Creek chert	1
3723.00	95	219	I-3	214.70	214.63	Middle stage reduction flake	Brush Creek chert	4
3723.00	95	219	I-3	214.70	214.63	Late stage reduction flake	Brush Creek chert	1
3723.00	95	219	I-3	214.70	214.63	Early stage reduction flake	Brush Creek chert	1
3723.00	95	219	I-3	214.70	214.63	Flake Fragment	Onondaga chert	1
3723.00	95	219	I-3	214.70	214.63	Flake Fragment	Brush Creek chert	5
3724.00	95	220	I-2	214.76	214.66	Late stage reduction flake	Brush Creek chert	1
3724.00	95	220	I-2	214.76	214.66	Flake Fragment	Brush Creek chert	1
3724.00	95	220	I-2	214.76	214.66	Late stage reduction flake	Brush Creek chert	2
3724.00	95	220	I-2	214.76	214.66	Middle stage reduction flake	Brush Creek chert	1
3724.00	95	220	I-2	214.76	214.66	Early stage reduction flake	Brush Creek chert	1
3724.00	95	220	I-2	214.76	214.66	Middle stage reduction flake	Onondaga chert	3
3724.00	95	220	I-2	214.76	214.66	Early stage reduction flake	Uniontown chert	1
3724.00	95	220	I-2	214.76	214.66	Middle stage reduction flake	Uniontown chert	1
3724.00	95	220	I-2	214.76	214.66	Flake Fragment	Uniontown chert	1
3724.00	95	220	I-2	214.76	214.66	Flake Fragment	Uniontown chert	1
3724.00	95	220	I-2	214.76	214.66	Flake Fragment	Brush Creek chert	1
3724.00	95	220	I-2	214.76	214.66	Middle stage reduction flake	Brush Creek chert	1
3724.00	95	220	I-2	214.76	214.66	Flake Fragment	Brush Creek chert	1
3724.00	95	220	I-2	214.76	214.66	Flake Fragment	Brush Creek chert	1
3724.00	95	220	I-2	214.76	214.66	Middle stage reduction flake	Uniontown chert	2
3724.00	95	220	I-2	214.76	214.66	Fire-cracked rock	Sandstone	18
3724.00	95	220	I-2	214.76	214.66	Flake Fragment	Onondaga chert	1
3724.00	95	220	I-2	214.76	214.66	Utilized flake	Onondaga chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3724.00	95	220	I-2	214.76	214.66	Utilized flake	Onondaga chert	1
3724.00	95	220	I-2	214.76	214.66	Late stage reduction flake	Onondaga chert	3
3724.00	95	220	I-2	214.76	214.66	Flake Fragment	Onondaga chert	1
3724.00	95	220	I-2	214.76	214.66	Flake Fragment	Onondaga chert	1
3724.00	95	220	I-2	214.76	214.66	Middle stage reduction flake	Onondaga chert	1
3724.00	95	220	I-2	214.76	214.66	Flake Fragment	Onondaga chert	1
3725.00	95	220	I-3	214.66	214.56	Fire-cracked rock	Sandstone	12
3725.00	95	220	I-3	214.66	214.56	Middle stage reduction flake	Chert	1
3725.00	95	220	I-3	214.66	214.56	C-14 sample		1
3725.00	95	220	I-3	214.66	214.56	Early stage reduction flake	Onondaga chert	1
3725.00	95	220	I-3	214.66	214.56	Late stage reduction flake	Onondaga chert	6
3725.00	95	220	I-3	214.66	214.56	Middle stage reduction flake	Onondaga chert	1
3725.00	95	220	I-3	214.66	214.56	Middle stage reduction flake	Onondaga chert	1
3725.00	95	220	I-3	214.66	214.56	Middle stage reduction flake	Brush Creek chert	1
3725.00	95	220	I-3	214.66	214.56	Middle stage reduction flake	Onondaga chert	2
3725.00	95	220	I-3	214.66	214.56	Middle stage reduction flake	Brush Creek chert	1
3725.00	95	220	I-3	214.66	214.56	Flake Fragment	Brush Creek chert	2
3725.00	95	220	I-3	214.66	214.56	Flake Fragment	Brush Creek chert	1
3725.00	95	220	I-3	214.66	214.56	Middle stage reduction flake	Onondaga chert	1
3725.00	95	220	I-3	214.66	214.56	Flake Fragment	Brush Creek chert	1
3725.00	95	220	I-3	214.66	214.56	Unmodified natural rock/manuport	Sandstone	1
3725.00	95	220	I-3	214.66	214.56	Flake Fragment	Onondaga chert	5
3726.00	95	221	I-2	214.75	214.65	Fire-cracked rock	Sandstone	4
3726.00	95	221	I-2	214.75	214.65	Middle stage reduction flake	Brush Creek chert	1
3726.00	95	221	I-2	214.75	214.65	Middle stage reduction flake	Brush Creek chert	1
3726.00	95	221	I-2	214.75	214.65	Middle stage reduction flake	Brush Creek chert	5

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3726.00	95	221	I-2	214.75	214.65	Eroded, unidentifiable temper		2
3726.00	95	221	I-2	214.75	214.65	Middle stage reduction flake	Other raw material	1
3726.00	95	221	I-2	214.75	214.65	Flake Fragment	Other raw material	1
3726.00	95	221	I-2	214.75	214.65	Middle stage reduction flake	Brush Creek chert	1
3726.00	95	221	I-2	214.75	214.65	Middle stage reduction flake	Onondaga chert	1
3726.00	95	221	I-2	214.75	214.65	Middle stage reduction flake	Onondaga chert	1
3726.00	95	221	I-2	214.75	214.65	Late stage reduction flake	Onondaga chert	4
3726.00	95	221	I-2	214.75	214.65	Flake Fragment	Onondaga chert	2
3726.00	95	221	I-2	214.75	214.65	Flake Fragment	Onondaga chert	1
3726.00	95	221	I-2	214.75	214.65	Early stage reduction flake	Onondaga chert	1
3726.00	95	221	I-2	214.75	214.65	Flake Fragment	Brush Creek chert	1
3726.00	95	221	I-2	214.75	214.65	Flake Fragment	Brush Creek chert	3
3726.00	95	221	I-2	214.75	214.65	Shatter	Brush Creek chert	1
3726.00	95	221	I-2	214.75	214.65	Late stage reduction flake	Brush Creek chert	1
3727.00	95	221	I-3	214.65	214.56	Flake Fragment	Brush Creek chert	4
3727.00	95	221	I-3	214.65	214.56	Middle stage reduction flake	Brush Creek chert	1
3727.00	95	221	I-3	214.65	214.56	Late stage reduction flake	Brush Creek chert	3
3727.00	95	221	I-3	214.65	214.56	Middle stage reduction flake	Vanport chert	1
3727.00	95	221	I-3	214.65	214.56	Middle stage reduction flake	Brush Creek chert	1
3727.00	95	221	I-3	214.65	214.56	Early stage reduction flake	Brush Creek chert	1
3727.00	95	221	I-3	214.65	214.56	Fire-cracked rock	Sandstone	13
3727.00	95	221	I-3	214.65	214.56	Flake Fragment	Onondaga chert	13
3727.00	95	221	I-3	214.65	214.56	Flake Fragment	Brush Creek chert	1
3727.00	95	221	I-3	214.65	214.56	Flake Fragment	Onondaga chert	1
3727.00	95	221	I-3	214.65	214.56	Flake Fragment	Brush Creek chert	1
3727.00	95	221	I-3	214.65	214.56	Middle stage reduction flake	Uniontown chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3727.00	95	221	I-3	214.65	214.56	Late stage reduction flake	Chalcedony	1
3727.00	95	221	I-3	214.65	214.56	Late stage reduction flake	Brush Creek chert	1
3727.00	95	221	I-3	214.65	214.56	Flake Fragment	Brush Creek chert	1
3727.00	95	221	I-3	214.65	214.56	Middle stage reduction flake	Brush Creek chert	1
3727.00	95	221	I-3	214.65	214.56	Flake Fragment	Onondaga chert	1
3727.00	95	221	I-3	214.65	214.56	Flake Fragment	Onondaga chert	1
3727.00	95	221	I-3	214.65	214.56	Flake Fragment	Onondaga chert	1
3727.00	95	221	I-3	214.65	214.56	Late stage reduction flake	Onondaga chert	1
3727.00	95	221	I-3	214.65	214.56	Middle stage reduction flake	Onondaga chert	7
3727.00	95	221	I-3	214.65	214.56	Middle stage reduction flake	Onondaga chert	4
3727.00	95	221	I-3	214.65	214.56	Flake Fragment	Brush Creek chert	1
3727.00	95	221	I-3	214.65	214.56	Flake Fragment	Onondaga chert	1
3727.00	95	221	I-3	214.65	214.56	Biface middle stage	Onondaga chert	1
3727.00	95	221	I-3	214.65	214.56	Middle stage reduction flake	Onondaga chert	1
3727.00	95	221	I-3	214.65	214.56	Middle stage reduction flake	Onondaga chert	1
3727.00	95	221	I-3	214.65	214.56	Middle stage reduction flake	Brush Creek chert	2
3728.00	95	222	I-3	214.65	214.57	Middle stage reduction flake	Brush Creek chert	1
3728.00	95	222	I-3	214.65	214.57	Middle stage reduction flake	Onondaga chert	3
3728.00	95	222	I-3	214.65	214.57	Middle stage reduction flake	Onondaga chert	1
3728.00	95	222	I-3	214.65	214.57	Middle stage reduction flake	Onondaga chert	1
3728.00	95	222	I-3	214.65	214.57	Middle stage reduction flake	Onondaga chert	1
3728.00	95	222	I-3	214.65	214.57	Middle stage reduction flake	Onondaga chert	1
3728.00	95	222	I-3	214.65	214.57	Middle stage reduction flake	Onondaga chert	1
3728.00	95	222	I-3	214.65	214.57	Middle stage reduction flake	Onondaga chert	15
3728.00	95	222	I-3	214.65	214.57	Middle stage reduction flake	Onondaga chert	1
3728.00	95	222	I-3	214.65	214.57	Late stage reduction flake	Onondaga chert	1
3728.00	95	222	I-3	214.65	214.57	Middle stage reduction flake	Onondaga chert	1
3728.00	95	222	I-3	214.65	214.57	Middle stage reduction flake	Onondaga chert	1
3728.00	95	222	I-3	214.65	214.57	Middle stage reduction flake	Brush Creek chert	1
3728.00	95	222	I-3	214.65	214.57	Flake Fragment	Onondaga chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3728.00	95	222	I-3	214.65	214.57	Middle stage reduction flake	Brush Creek chert	1
3728.00	95	222	I-3	214.65	214.57	Flake Fragment	Onondaga chert	15
3728.00	95	222	I-3	214.65	214.57	Middle stage reduction flake	Onondaga chert	1
3728.00	95	222	I-3	214.65	214.57	Late stage reduction flake	Brush Creek chert	1
3728.00	95	222	I-3	214.65	214.57	Biface early stage	Brush Creek chert	1
3728.00	95	222	I-3	214.65	214.57	Flake Fragment	Uniontown chert	3
3728.00	95	222	I-3	214.65	214.57	Flake Fragment	Brush Creek chert	1
3728.00	95	222	I-3	214.65	214.57	Middle stage reduction flake	Brush Creek chert	1
3728.00	95	222	I-3	214.65	214.57	Flake Fragment	Brush Creek chert	1
3728.00	95	222	I-3	214.65	214.57	Fire-cracked rock	Sandstone	4
3728.00	95	222	I-3	214.65	214.57	Flake Fragment	Brush Creek chert	4
3728.00	95	222	I-3	214.65	214.57	Late stage reduction flake	Brush Creek chert	4
3728.00	95	222	I-3	214.65	214.57	Middle stage reduction flake	Brush Creek chert	4
3728.00	95	222	I-3	214.65	214.57	Middle stage reduction flake	Brush Creek chert	1
3728.00	95	222	I-3	214.65	214.57	Flake Fragment	Upper Mercer chert	1
3729.00	96	215	I-1	214.85	214.78	Fire-cracked rock	Sandstone	13
3729.00	96	215	I-1	214.85	214.78	Other scraper	Brush Creek chert	1
3729.00	96	215	I-1	214.85	214.78	Middle stage reduction flake	Uniontown chert	1
3730.00	96	215	I-2	214.78	214.75	Miscellaneous metal, Other		1
3731.00	96	217	I-1	214.86	214.77	Fire-cracked rock	Sandstone	12
3731.00	96	217	I-1	214.86	214.77	Flake Fragment	Onondaga chert	1
3731.00	96	217	I-1	214.86	214.77	Early stage reduction flake	Onondaga chert	1
3731.00	96	217	I-1	214.86	214.77	Late stage reduction flake	Onondaga chert	3
3731.00	96	217	I-1	214.86	214.77	Middle stage reduction flake	Onondaga chert	1
3731.00	96	217	I-1	214.86	214.77	Middle stage reduction flake	Brush Creek chert	1
3731.00	96	217	I-1	214.86	214.77	Flake Fragment	Brush Creek chert	1
3731.00	96	217	I-1	214.86	214.77	Utilized flake	Onondaga chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3731.00	96	217	I-1	214.86	214.77	Flake Fragment	Brush Creek chert	2
3731.00	96	217	I-1	214.86	214.77	Flake Fragment	Brush Creek chert	1
3732.00	96	218	I-1	214.83	214.74	Early stage reduction flake	Onondaga chert	1
3732.00	96	218	I-1	214.83	214.74	Fire-cracked rock	Sandstone	12
3732.00	96	218	I-1	214.83	214.74	Flake Fragment	Onondaga chert	1
3732.00	96	218	I-1	214.83	214.74	Flake Fragment	Onondaga chert	1
3732.00	96	218	I-1	214.83	214.74	Middle stage reduction flake	Brush Creek chert	1
3732.00	96	218	I-1	214.83	214.74	Late stage reduction flake	Onondaga chert	3
3732.00	96	218	I-1	214.83	214.74	Flake Fragment	Onondaga chert	3
3732.00	96	218	I-1	214.83	214.74	Middle stage reduction flake	Uniontown chert	1
3732.00	96	218	I-1	214.83	214.74	Flake Fragment	Siltstone	1
3732.00	96	218	I-1	214.83	214.74	Flake Fragment	Other raw material	1
3732.00	96	218	I-1	214.83	214.74	Indeterminate container glass	Olive green	1
3732.00	96	218	I-1	214.83	214.74	Indeterminate container glass	Amber	1
3732.00	96	218	I-1	214.83	214.74	Indeterminate container glass	Colorless	1
3732.00	96	218	I-1	214.83	214.74	Middle stage reduction flake	Onondaga chert	3
3732.00	96	218	I-1	214.83	214.74	Indeterminate container glass	Aqua	1
3733.00	96	218	I-2	214.74	214.62	Flake Fragment	Uniontown chert	1
3733.00	96	218	I-2	214.74	214.62	Early stage reduction flake	Brush Creek chert	1
3733.00	96	218	I-2	214.74	214.62	Middle stage reduction flake	Uniontown chert	1
3733.00	96	218	I-2	214.74	214.62	Fire-cracked rock	Sandstone	24
3733.00	96	218	I-2	214.74	214.62	Expanding stem point	Onondaga chert	1
3733.00	96	218	I-2	214.74	214.62	Utilized flake	Onondaga chert	1
3733.00	96	218	I-2	214.74	214.62	Late stage reduction flake	Brush Creek chert	2
3733.00	96	218	I-2	214.74	214.62	Middle stage reduction flake	Brush Creek chert	1
3733.00	96	218	I-2	214.74	214.62	Flake Fragment	Uniontown chert	2
3733.00	96	218	I-2	214.74	214.62	Flake Fragment	Quartzite	1

2002 Field Season

Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3733.00	96	218	I-2	214.74	214.62	Flake Fragment	Brush Creek chert	1
3733.00	96	218	I-2	214.74	214.62	Flake Fragment	Brush Creek chert	1
3733.00	96	218	I-2	214.74	214.62	Flake Fragment	Brush Creek chert	1
3733.00	96	218	I-2	214.74	214.62	Late stage reduction flake	Brush Creek chert	1
3733.00	96	218	I-2	214.74	214.62	Flake Fragment	Brush Creek chert	2
3733.00	96	218	I-2	214.74	214.62	Flake Fragment	Brush Creek chert	1
3733.00	96	218	I-2	214.74	214.62	Flake Fragment	Onondaga chert	4
3733.00	96	218	I-2	214.74	214.62	Middle stage reduction flake	Onondaga chert	3
3733.00	96	218	I-2	214.74	214.62	Late stage reduction flake	Onondaga chert	3
3733.00	96	218	I-2	214.74	214.62	Flake Fragment	Sandstone	1
3733.00	96	218	I-2	214.74	214.62	Middle stage reduction flake	Onondaga chert	1
3733.00	96	218	I-2	214.74	214.62	Middle stage reduction flake	Onondaga chert	2
3734.00	96	219	I-1	214.87	214.77	Unidentifiable nail		2
3734.00	96	219	I-1	214.87	214.77	Middle stage reduction flake	Brush Creek chert	2
3734.00	96	219	I-1	214.87	214.77	Flake Fragment	Brush Creek chert	2
3734.00	96	219	I-1	214.87	214.77	Flake Fragment	Onondaga chert	1
3734.00	96	219	I-1	214.87	214.77	Middle stage reduction flake	Vanport chert	1
3734.00	96	219	I-1	214.87	214.77	Miscellaneous metal, Unidentifiable		1
3734.00	96	219	I-1	214.87	214.77	Middle stage reduction flake	Onondaga chert	1
3734.00	96	219	I-1	214.87	214.77	Flake Fragment	Uniontown chert	1
3734.00	96	219	I-1	214.87	214.77	Indeterminate container glass	Amber	1
3734.00	96	219	I-1	214.87	214.77	Indeterminate container glass	Colorless	1
3734.00	96	219	I-1	214.87	214.77	Spike, Unidentified		1
3734.00	96	219	I-1	214.87	214.77	Flake Fragment	Brush Creek chert	1
3734.00	96	219	I-1	214.87	214.77	Fire-cracked rock	Sandstone	20
3735.00	96	219	I-2	214.77	214.67	Flake Fragment	Brush Creek chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3735.00	96	219	I-2	214.77	214.67	Flake Fragment	Siltstone	1
3735.00	96	219	I-2	214.77	214.67	Flake Fragment	Sandstone	1
3735.00	96	219	I-2	214.77	214.67	Late stage reduction flake	Brush Creek chert	1
3735.00	96	219	I-2	214.77	214.67	Flake Fragment	Brush Creek chert	1
3735.00	96	219	I-2	214.77	214.67	Middle stage reduction flake	Brush Creek chert	5
3735.00	96	219	I-2	214.77	214.67	Middle stage reduction flake	Brush Creek chert	1
3735.00	96	219	I-2	214.77	214.67	Middle stage reduction flake	Brush Creek chert	1
3735.00	96	219	I-2	214.77	214.67	Middle stage reduction flake	Brush Creek chert	1
3735.00	96	219	I-2	214.77	214.67	Middle stage reduction flake	Uniontown chert	1
3735.00	96	219	I-2	214.77	214.67	Flake Fragment	Brush Creek chert	2
3735.00	96	219	I-2	214.77	214.67	Flake Fragment	Onondaga chert	1
3735.00	96	219	I-2	214.77	214.67	Middle stage reduction flake	Onondaga chert	2
3735.00	96	219	I-2	214.77	214.67	Middle stage reduction flake	Onondaga chert	1
3735.00	96	219	I-2	214.77	214.67	Middle stage reduction flake	Onondaga chert	1
3735.00	96	219	I-2	214.77	214.67	Late stage reduction flake	Onondaga chert	1
3735.00	96	219	I-2	214.77	214.67	Flake Fragment	Onondaga chert	8
3735.00	96	219	I-2	214.77	214.67	Flake Fragment	Onondaga chert	1
3735.00	96	219	I-2	214.77	214.67	Flake Fragment	Onondaga chert	1
3735.00	96	219	I-2	214.77	214.67	Late stage reduction flake	Brush Creek chert	1
3735.00	96	219	I-2	214.77	214.67	Fire-cracked rock	Sandstone	25
3736.00	96	220	I-3	24.62	214.53	Fire-cracked rock	Sandstone	22
3736.00	96	220	I-3	24.62	214.53	Late stage reduction flake	Onondaga chert	1
3736.00	96	220	I-3	24.62	214.53	Late stage reduction flake	Brush Creek chert	1
3736.00	96	220	I-3	24.62	214.53	Late stage reduction flake	Onondaga chert	9
3736.00	96	220	I-3	24.62	214.53	Flake Fragment	Onondaga chert	1
3736.00	96	220	I-3	24.62	214.53	Flake Fragment	Onondaga chert	1
3736.00	96	220	I-3	24.62	214.53	Flake Fragment	Onondaga chert	1

2002 Field Season

Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3736.00	96	220	I-3	24.62	214.53	Flake Fragment	Onondaga chert	1
3736.00	96	220	I-3	24.62	214.53	Flake Fragment	Onondaga chert	1
3736.00	96	220	I-3	24.62	214.53	Flake Fragment	Onondaga chert	1
3736.00	96	220	I-3	24.62	214.53	Late stage reduction flake	Onondaga chert	1
3736.00	96	220	I-3	24.62	214.53	Flake Fragment	Onondaga chert	1
3736.00	96	220	I-3	24.62	214.53	Flake Fragment	Uniontown chert	3
3736.00	96	220	I-3	24.62	214.53	Late stage reduction flake	Uniontown chert	1
3736.00	96	220	I-3	24.62	214.53	Early stage reduction flake	Onondaga chert	1
3736.00	96	220	I-3	24.62	214.53	Late stage reduction flake	Uniontown chert	1
3736.00	96	220	I-3	24.62	214.53	Late stage reduction flake	Brush Creek chert	1
3736.00	96	220	I-3	24.62	214.53	Middle stage reduction flake	Uniontown chert	3
3736.00	96	220	I-3	24.62	214.53	Middle stage reduction flake	Vanport chert	1
3736.00	96	220	I-3	24.62	214.53	Middle stage reduction flake	Brush Creek chert	2
3736.00	96	220	I-3	24.62	214.53	Early stage reduction flake	Brush Creek chert	1
3736.00	96	220	I-3	24.62	214.53	Early stage reduction flake	Brush Creek chert	1
3736.00	96	220	I-3	24.62	214.53	Flake Fragment	Brush Creek chert	1
3736.00	96	220	I-3	24.62	214.53	Flake Fragment	Onondaga chert	24
3736.00	96	220	I-3	24.62	214.53	Late stage reduction flake	Brush Creek chert	5
3736.00	96	220	I-3	24.62	214.53	Middle stage reduction flake	Onondaga chert	1
3736.00	96	220	I-3	24.62	214.53	Middle stage reduction flake	Brush Creek chert	1
3736.00	96	220	I-3	24.62	214.53	Middle stage reduction flake	Brush Creek chert	1
3736.00	96	220	I-3	24.62	214.53	Middle stage reduction flake	Brush Creek chert	1
3736.00	96	220	I-3	24.62	214.53	Early stage reduction flake	Brush Creek chert	1
3736.00	96	220	I-3	24.62	214.53	Flake Fragment	Brush Creek chert	5
3736.00	96	220	I-3	24.62	214.53	Flake Fragment	Brush Creek chert	1
3736.00	96	220	I-3	24.62	214.53	Flake Fragment	Brush Creek chert	1
3736.00	96	220	I-3	24.62	214.53	Middle stage reduction flake	Brush Creek chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3736.00	96	220	I-3	24.62	214.53	Middle stage reduction flake	Brush Creek chert	1
3736.00	96	220	I-3	24.62	214.53	Middle stage reduction flake	Onondaga chert	13
3736.00	96	220	I-3	24.62	214.53	Middle stage reduction flake	Brush Creek chert	1
3736.00	96	220	I-3	24.62	214.53	Biface fragments	Brush Creek chert	1
3736.00	96	220	I-3	24.62	214.53	Early stage reduction flake	Onondaga chert	1
3736.00	96	220	I-3	24.62	214.53	Middle stage reduction flake	Brush Creek chert	7
3736.00	96	220	I-3	24.62	214.53	Middle stage reduction flake	Onondaga chert	1
3736.00	96	220	I-3	24.62	214.53	Middle stage reduction flake	Onondaga chert	1
3736.00	96	220	I-3	24.62	214.53	Middle stage reduction flake	Onondaga chert	1
3736.00	96	220	I-3	24.62	214.53	Early stage reduction flake	Onondaga chert	1
3736.00	96	220	I-3	24.62	214.53	Middle stage reduction flake	Onondaga chert	1
3736.00	96	220	I-3	24.62	214.53	Middle stage reduction flake	Onondaga chert	1
3736.00	96	220	I-3	24.62	214.53	Middle stage reduction flake	Brush Creek chert	1
3737.00	96	221	I-2	214.77	214.65	Early stage reduction flake	Onondaga chert	1
3737.00	96	221	I-2	214.77	214.65	Middle stage reduction flake	Brush Creek chert	2
3737.00	96	221	I-2	214.77	214.65	Middle stage reduction flake	Onondaga chert	8
3737.00	96	221	I-2	214.77	214.65	Middle stage reduction flake	Onondaga chert	1
3737.00	96	221	I-2	214.77	214.65	Middle stage reduction flake	Onondaga chert	1
3737.00	96	221	I-2	214.77	214.65	Flake Fragment	Brush Creek chert	3
3737.00	96	221	I-2	214.77	214.65	Middle stage reduction flake	Onondaga chert	1
3737.00	96	221	I-2	214.77	214.65	Early stage reduction flake	Onondaga chert	1
3737.00	96	221	I-2	214.77	214.65	Middle stage reduction flake	Onondaga chert	1
3737.00	96	221	I-2	214.77	214.65	Flake Fragment	Onondaga chert	9
3737.00	96	221	I-2	214.77	214.65	Middle stage reduction flake	Onondaga chert	1
3737.00	96	221	I-2	214.77	214.65	Biface fragments	Brush Creek chert	1
3737.00	96	221	I-2	214.77	214.65	Early stage reduction flake	Onondaga chert	1
3737.00	96	221	I-2	214.77	214.65	Middle stage reduction flake	Brush Creek chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3737.00	96	221	I-2	214.77	214.65	Fire-cracked rock	Sandstone	23
3737.00	96	221	I-2	214.77	214.65	Shatter	Onondaga chert	1
3737.00	96	221	I-2	214.77	214.65	Early stage reduction flake	Onondaga chert	1
3737.00	96	221	I-2	214.77	214.65	Middle stage reduction flake	Brush Creek chert	1
3737.00	96	221	I-2	214.77	214.65	Early stage reduction flake	Brush Creek chert	1
3737.00	96	221	I-2	214.77	214.65	Early stage reduction flake	Brush Creek chert	1
3737.00	96	221	I-2	214.77	214.65	Middle stage reduction flake	Brush Creek chert	1
3737.00	96	221	I-2	214.77	214.65	Middle stage reduction flake	Brush Creek chert	1
3737.00	96	221	I-2	214.77	214.65	Middle stage reduction flake	Brush Creek chert	1
3738.00	96	221	I-3	214.65	214.53	Late stage reduction flake	Brush Creek chert	1
3738.00	96	221	I-3	214.65	214.53	Early stage reduction flake	Uniontown chert	1
3738.00	96	221	I-3	214.65	214.53	Early stage reduction flake	Brush Creek chert	1
3738.00	96	221	I-3	214.65	214.53	Middle stage reduction flake	Brush Creek chert	5
3738.00	96	221	I-3	214.65	214.53	Middle stage reduction flake	Brush Creek chert	1
3738.00	96	221	I-3	214.65	214.53	Flake Fragment	Onondaga chert	1
3738.00	96	221	I-3	214.65	214.53	Middle stage reduction flake	Brush Creek chert	1
3738.00	96	221	I-3	214.65	214.53	Flake Fragment	Brush Creek chert	5
3738.00	96	221	I-3	214.65	214.53	Late stage reduction flake	Brush Creek chert	1
3738.00	96	221	I-3	214.65	214.53	Middle stage reduction flake	Uniontown chert	1
3738.00	96	221	I-3	214.65	214.53	Flake Fragment	Uniontown chert	2
3738.00	96	221	I-3	214.65	214.53	Flake Fragment	Onondaga chert	3
3738.00	96	221	I-3	214.65	214.53	Flake Fragment	Onondaga chert	1
3738.00	96	221	I-3	214.65	214.53	Late stage reduction flake	Brush Creek chert	5
3738.00	96	221	I-3	214.65	214.53	Middle stage reduction flake	Uniontown chert	1
3738.00	96	221	I-3	214.65	214.53	Middle stage reduction flake	Uniontown chert	2
3738.00	96	221	I-3	214.65	214.53	Middle stage reduction flake	Uniontown chert	1
3738.00	96	221	I-3	214.65	214.53	Middle stage reduction flake	Uniontown chert	1
3738.00	96	221	I-3	214.65	214.53	Middle stage reduction flake	Uniontown chert	2
3738.00	96	221	I-3	214.65	214.53	Late stage reduction flake	Uniontown chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3738.00	96	221	I-3	214.65	214.53	Flake Fragment	Uniontown chert	1
3738.00	96	221	I-3	214.65	214.53	Flake Fragment	Brush Creek chert	1
3738.00	96	221	I-3	214.65	214.53	Flake Fragment	Brush Creek chert	1
3738.00	96	221	I-3	214.65	214.53	Flake Fragment	Vanport chert	1
3738.00	96	221	I-3	214.65	214.53	Flake Fragment	Brush Creek chert	1
3738.00	96	221	I-3	214.65	214.53	Early stage reduction flake	Brush Creek chert	1
3738.00	96	221	I-3	214.65	214.53	Late stage reduction flake	Brush Creek chert	1
3738.00	96	221	I-3	214.65	214.53	Flake Fragment	Onondaga chert	1
3738.00	96	221	I-3	214.65	214.53	Eroded, unidentifiable temper		1
3738.00	96	221	I-3	214.65	214.53	Late stage reduction flake	Uniontown chert	1
3738.00	96	221	I-3	214.65	214.53	Flake Fragment	Onondaga chert	1
3738.00	96	221	I-3	214.65	214.53	Fire-cracked rock	Sandstone	10
3738.00	96	221	I-3	214.65	214.53	Middle stage reduction flake	Onondaga chert	1
3738.00	96	221	I-3	214.65	214.53	Middle stage reduction flake	Onondaga chert	1
3738.00	96	221	I-3	214.65	214.53	Middle stage reduction flake	Onondaga chert	1
3738.00	96	221	I-3	214.65	214.53	Middle stage reduction flake	Onondaga chert	1
3738.00	96	221	I-3	214.65	214.53	Middle stage reduction flake	Onondaga chert	7
3738.00	96	221	I-3	214.65	214.53	Late stage reduction flake	Onondaga chert	1
3738.00	96	221	I-3	214.65	214.53	Late stage reduction flake	Onondaga chert	8
3739.00	96	222	I-3	N/A	214.53	Early stage reduction flake	Brush Creek chert	1
3739.00	96	222	I-3	N/A	214.53	Flake Fragment	Onondaga chert	1
3739.00	96	222	I-3	N/A	214.53	Middle stage reduction flake	Onondaga chert	1
3739.00	96	222	I-3	N/A	214.53	Shatter	Brush Creek chert	1
3739.00	96	222	I-3	N/A	214.53	Early stage reduction flake	Onondaga chert	1
3739.00	96	222	I-3	N/A	214.53	Early stage reduction flake	Onondaga chert	1
3739.00	96	222	I-3	N/A	214.53	Early stage reduction flake	Onondaga chert	1
3739.00	96	222	I-3	N/A	214.53	Middle stage reduction flake	Onondaga chert	11

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3739.00	96	222	I-3	N/A	214.53	Middle stage reduction flake	Onondaga chert	1
3739.00	96	222	I-3	N/A	214.53	Middle stage reduction flake	Onondaga chert	1
3739.00	96	222	I-3	N/A	214.53	Early stage reduction flake	Brush Creek chert	1
3739.00	96	222	I-3	N/A	214.53	Late stage reduction flake	Onondaga chert	13
3739.00	96	222	I-3	N/A	214.53	Late stage reduction flake	Onondaga chert	1
3739.00	96	222	I-3	N/A	214.53	Flake Fragment	Brush Creek chert	1
3739.00	96	222	I-3	N/A	214.53	Flake Fragment	Onondaga chert	1
3739.00	96	222	I-3	N/A	214.53	Flake Fragment	Brush Creek chert	1
3739.00	96	222	I-3	N/A	214.53	Flake Fragment	Onondaga chert	1
3739.00	96	222	I-3	N/A	214.53	Flake Fragment	Onondaga chert	1
3739.00	96	222	I-3	N/A	214.53	Flake Fragment	Onondaga chert	1
3739.00	96	222	I-3	N/A	214.53	Utilized flake	Onondaga chert	1
3739.00	96	222	I-3	N/A	214.53	Core fragment	Onondaga chert	1
3739.00	96	222	I-3	N/A	214.53	Flake Fragment	Onondaga chert	14
3739.00	96	222	I-3	N/A	214.53	Middle stage reduction flake	Brush Creek chert	8
3739.00	96	222	I-3	N/A	214.53	Bifurcated point	Onondaga chert	1
3739.00	96	222	I-3	N/A	214.53	Unidentifiable glass, other	Colorless	1
3739.00	96	222	I-3	N/A	214.53	Late stage reduction flake	Brush Creek chert	1
3739.00	96	222	I-3	N/A	214.53	Middle stage reduction flake	Brush Creek chert	2
3739.00	96	222	I-3	N/A	214.53	Middle stage reduction flake	Brush Creek chert	1
3739.00	96	222	I-3	N/A	214.53	Flake Fragment	Vanport chert	1
3739.00	96	222	I-3	N/A	214.53	Flake Fragment	Uniontown chert	2
3739.00	96	222	I-3	N/A	214.53	Flake Fragment	Uniontown chert	1
3739.00	96	222	I-3	N/A	214.53	Late stage reduction flake	Uniontown chert	1
3739.00	96	222	I-3	N/A	214.53	Middle stage reduction flake	Uniontown chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3739.00	96	222	I-3	N/A	214.53	Flake Fragment	Brush Creek chert	1
3739.00	96	222	I-3	N/A	214.53	Middle stage reduction flake	Uniontown chert	1
3739.00	96	222	I-3	N/A	214.53	Flake Fragment	Brush Creek chert	1
3739.00	96	222	I-3	N/A	214.53	Middle stage reduction flake	Brush Creek chert	1
3739.00	96	222	I-3	N/A	214.53	Middle stage reduction flake	Brush Creek chert	1
3739.00	96	222	I-3	N/A	214.53	Middle stage reduction flake	Brush Creek chert	1
3739.00	96	222	I-3	N/A	214.53	Late stage reduction flake	Brush Creek chert	12
3739.00	96	222	I-3	N/A	214.53	Flake Fragment	Brush Creek chert	13
3739.00	96	222	I-3	N/A	214.53	Flake Fragment	Brush Creek chert	1
3739.00	96	222	I-3	N/A	214.53	Flake Fragment	Brush Creek chert	1
3739.00	96	222	I-3	N/A	214.53	Flake Fragment	Brush Creek chert	1
3739.00	96	222	I-3	N/A	214.53	Flake Fragment	Brush Creek chert	1
3739.00	96	222	I-3	N/A	214.53	Flake Fragment	Brush Creek chert	1
3739.00	96	222	I-3	N/A	214.53	Flake Fragment	Brush Creek chert	1
3739.00	96	222	I-3	N/A	214.53	Middle stage reduction flake	Uniontown chert	1
3739.00	96	222	I-3	N/A	214.53	Fire-cracked rock	Sandstone	6
3740.00	97	215	I-1	214.90	214.88	Stoneware, Brown Salt-glazed, Plain	Miscellaneous Flatware Body	1
3740.00	97	215	I-1	214.90	214.88	Slag		2
3740.00	97	215	I-1	214.90	214.88	Flake Fragment	Brush Creek chert	1
3740.00	97	215	I-1	214.90	214.88	Flake Fragment	Onondaga chert	1
3740.00	97	215	I-1	214.90	214.88	Flake Fragment	Other raw material	1
3740.00	97	215	I-1	214.90	214.88	Late stage reduction flake	Brush Creek chert	1
3740.00	97	215	I-1	214.90	214.88	Fire-cracked rock	Sandstone	15
3741.00	97	217	I-1	214.85	214.74	Late stage reduction flake	Onondaga chert	1
3741.00	97	217	I-1	214.85	214.74	Fire-cracked rock	Sandstone	13
3741.00	97	217	I-1	214.85	214.74	Flake Fragment	Brush Creek chert	1
3741.00	97	217	I-1	214.85	214.74	Flake Fragment	Brush Creek chert	5

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3741.00	97	217	I-1	214.85	214.74	Middle stage reduction flake	Onondaga chert	1
3741.00	97	217	I-1	214.85	214.74	Flake Fragment	Onondaga chert	3
3741.00	97	217	I-1	214.85	214.74	Flake Fragment	Sandstone	1
3741.00	97	217	I-1	214.85	214.74	Flake Fragment	Uniontown chert	1
3741.00	97	217	I-1	214.85	214.74	Middle stage reduction flake	Brush Creek chert	1
3742.00	97	218	I-1	214.83	214.73	Flake Fragment	Brush Creek chert	1
3742.00	97	218	I-1	214.83	214.73	Middle stage reduction flake	Brush Creek chert	1
3742.00	97	218	I-1	214.83	214.73	Fire-cracked rock	Sandstone	25
3742.00	97	218	I-1	214.83	214.73	Flake Fragment	Onondaga chert	1
3742.00	97	218	I-1	214.83	214.73	Flake Fragment	Onondaga chert	6
3742.00	97	218	I-1	214.83	214.73	Middle stage reduction flake	Onondaga chert	1
3742.00	97	218	I-1	214.83	214.73	Flake Fragment	Brush Creek chert	1
3742.00	97	218	I-1	214.83	214.73	Shatter	Brush Creek chert	1
3742.00	97	218	I-1	214.83	214.73	Middle stage reduction flake	Brush Creek chert	1
3742.00	97	218	I-1	214.83	214.73	Brick	Brush Creek chert	1
3742.00	97	218	I-1	214.83	214.73	Flake Fragment	Sandstone	1
3742.00	97	218	I-1	214.83	214.73	Middle stage reduction flake	Brush Creek chert	1
3742.00	97	218	I-1	214.83	214.73	Middle stage reduction flake	Brush Creek chert	1
3742.00	97	218	I-1	214.83	214.73	Late stage reduction flake	Onondaga chert	4
3742.00	97	218	I-1	214.83	214.73	Late stage reduction flake	Brush Creek chert	1
3742.00	97	218	I-1	214.83	214.73	Prehistoric botanical food (seeds, nuts, etc.)		1
3742.00	97	218	I-1	214.83	214.73	Middle stage reduction flake	Onondaga chert	3
3743.00	97	218	I-2	214.73	214.65	Eroded, unidentifiable temper		1
3743.00	97	218	I-2	214.73	214.65	Late stage reduction flake	Brush Creek chert	1
3743.00	97	218	I-2	214.73	214.65	Early stage reduction flake	Onondaga chert	1
3743.00	97	218	I-2	214.73	214.65	Early stage reduction flake	Onondaga chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3743.00	97	218	I-2	214.73	214.65	Flake Fragment	Onondaga chert	1
3743.00	97	218	I-2	214.73	214.65	Early stage reduction flake	Brush Creek chert	1
3743.00	97	218	I-2	214.73	214.65	Late stage reduction flake	Onondaga chert	2
3743.00	97	218	I-2	214.73	214.65	Early stage reduction flake	Brush Creek chert	1
3743.00	97	218	I-2	214.73	214.65	Early stage reduction flake	Brush Creek chert	1
3743.00	97	218	I-2	214.73	214.65	Flake Fragment	Brush Creek chert	5
3743.00	97	218	I-2	214.73	214.65	Middle stage reduction flake	Brush Creek chert	1
3743.00	97	218	I-2	214.73	214.65	Fire-cracked rock	Sandstone	31
3743.00	97	218	I-2	214.73	214.65	Flake Fragment	Onondaga chert	1
3743.00	97	218	I-2	214.73	214.65	Flake Fragment	Onondaga chert	1
3743.00	97	218	I-2	214.73	214.65	Flake Fragment	Onondaga chert	4
3744.00	97	219	I-1	214.87	214.74	Flake Fragment	Onondaga chert	7
3744.00	97	219	I-1	214.87	214.74	Flake Fragment	Onondaga chert	1
3744.00	97	219	I-1	214.87	214.74	Fire-cracked rock	Sandstone	48
3744.00	97	219	I-1	214.87	214.74	Flake Fragment	Onondaga chert	1
3744.00	97	219	I-1	214.87	214.74	Middle stage reduction flake	Vanport chert	1
3744.00	97	219	I-1	214.87	214.74	Flake Fragment	Brush Creek chert	2
3744.00	97	219	I-1	214.87	214.74	Middle stage reduction flake	Brush Creek chert	1
3744.00	97	219	I-1	214.87	214.74	Eroded, unidentifiable temper		1
3744.00	97	219	I-1	214.87	214.74	Raw material	Other raw material	1
3744.00	97	219	I-1	214.87	214.74	Middle stage reduction flake	Onondaga chert	4
3745.00	97	219	I-2	214.74	214.64	Late stage reduction flake	Onondaga chert	4
3745.00	97	219	I-2	214.74	214.64	Middle stage reduction flake	Onondaga chert	1
3745.00	97	219	I-2	214.74	214.64	Middle stage reduction flake	Onondaga chert	1
3745.00	97	219	I-2	214.74	214.64	Middle stage reduction flake	Onondaga chert	1
3745.00	97	219	I-2	214.74	214.64	Middle stage reduction flake	Onondaga chert	4
3745.00	97	219	I-2	214.74	214.64	Flake Fragment	Brush Creek chert	1
3745.00	97	219	I-2	214.74	214.64	Flake Fragment	Brush Creek chert	2

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3746.00	97	219	I-3	214.64	214.55	Middle stage reduction flake	Brush Creek chert	1
3746.00	97	219	I-3	214.64	214.55	Flake Fragment	Onondaga chert	1
3746.00	97	219	I-3	214.64	214.55	Retouched flake	Brush Creek chert	1
3746.00	97	219	I-3	214.64	214.55	Utilized flake	Brush Creek chert	1
3746.00	97	219	I-3	214.64	214.55	Flake Fragment	Quartzite	1
3746.00	97	219	I-3	214.64	214.55	Flake Fragment	Onondaga chert	1
3746.00	97	219	I-3	214.64	214.55	Middle stage reduction flake	Brush Creek chert	1
3746.00	97	219	I-3	214.64	214.55	Flake Fragment	Upper Mercer chert	1
3746.00	97	219	I-3	214.64	214.55	Flake Fragment	Uniontown chert	1
3746.00	97	219	I-3	214.64	214.55	Flake Fragment	Uniontown chert	1
3746.00	97	219	I-3	214.64	214.55	Late stage reduction flake	Uniontown chert	1
3746.00	97	219	I-3	214.64	214.55	Early stage reduction flake	Uniontown chert	1
3746.00	97	219	I-3	214.64	214.55	Early stage reduction flake	Uniontown chert	1
3746.00	97	219	I-3	214.64	214.55	Flake Fragment	Brush Creek chert	1
3746.00	97	219	I-3	214.64	214.55	Middle stage reduction flake	Brush Creek chert	1
3746.00	97	219	I-3	214.64	214.55	Core fragment	Onondaga chert	1
3746.00	97	219	I-3	214.64	214.55	Middle stage reduction flake	Brush Creek chert	1
3746.00	97	219	I-3	214.64	214.55	Middle stage reduction flake	Brush Creek chert	1
3746.00	97	219	I-3	214.64	214.55	Middle stage reduction flake	Brush Creek chert	1
3746.00	97	219	I-3	214.64	214.55	Middle stage reduction flake	Brush Creek chert	1
3746.00	97	219	I-3	214.64	214.55	Late stage reduction flake	Brush Creek chert	1
3746.00	97	219	I-3	214.64	214.55	Middle stage reduction flake	Brush Creek chert	1
3746.00	97	219	I-3	214.64	214.55	Early stage reduction flake	Brush Creek chert	1
3746.00	97	219	I-3	214.64	214.55	Flake Fragment	Uniontown chert	1
3746.00	97	219	I-3	214.64	214.55	Eroded, unidentifiable temper		1
3746.00	97	219	I-3	214.64	214.55	Early stage reduction flake	Brush Creek chert	1
3746.00	97	219	I-3	214.64	214.55	Fire-cracked rock	Sandstone	27

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3747.00	97	220	I-3	214.60	214.50	Late stage reduction flake	Brush Creek chert	2
3747.00	97	220	I-3	214.60	214.50	Flake Fragment	Onondaga chert	1
3747.00	97	220	I-3	214.60	214.50	Early stage reduction flake	Brush Creek chert	1
3747.00	97	220	I-3	214.60	214.50	Early stage reduction flake	Brush Creek chert	1
3747.00	97	220	I-3	214.60	214.50	Middle stage reduction flake	Brush Creek chert	12
3747.00	97	220	I-3	214.60	214.50	Middle stage reduction flake	Brush Creek chert	1
3747.00	97	220	I-3	214.60	214.50	Middle stage reduction flake	Brush Creek chert	1
3747.00	97	220	I-3	214.60	214.50	Middle stage reduction flake	Brush Creek chert	1
3747.00	97	220	I-3	214.60	214.50	Middle stage reduction flake	Brush Creek chert	1
3747.00	97	220	I-3	214.60	214.50	Flake Fragment	Onondaga chert	1
3747.00	97	220	I-3	214.60	214.50	Middle stage reduction flake	Brush Creek chert	1
3747.00	97	220	I-3	214.60	214.50	Flake Fragment	Onondaga chert	1
3747.00	97	220	I-3	214.60	214.50	Late stage reduction flake	Brush Creek chert	1
3747.00	97	220	I-3	214.60	214.50	Late stage reduction flake	Brush Creek chert	1
3747.00	97	220	I-3	214.60	214.50	Flake Fragment	Brush Creek chert	7
3747.00	97	220	I-3	214.60	214.50	Flake Fragment	Brush Creek chert	1
3747.00	97	220	I-3	214.60	214.50	Flake Fragment	Brush Creek chert	1
3747.00	97	220	I-3	214.60	214.50	Flake Fragment	Brush Creek chert	1
3747.00	97	220	I-3	214.60	214.50	Middle stage reduction flake	Brush Creek chert	1
3747.00	97	220	I-3	214.60	214.50	Middle stage reduction flake	Onondaga chert	1
3747.00	97	220	I-3	214.60	214.50	Fire-cracked rock	Sandstone	16
3747.00	97	220	I-3	214.60	214.50	Utilized Core	Onondaga chert	1
3747.00	97	220	I-3	214.60	214.50	Flake Fragment	Sandstone	1
3747.00	97	220	I-3	214.60	214.50	Flake Fragment	Siltstone	1
3747.00	97	220	I-3	214.60	214.50	Middle stage reduction flake	Brush Creek chert	1
3747.00	97	220	I-3	214.60	214.50	Shatter	Brush Creek chert	2
3747.00	97	220	I-3	214.60	214.50	Flake Fragment	Brush Creek chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3747.00	97	220	I-3	214.60	214.50	Flake Fragment	Brush Creek chert	1
3747.00	97	220	I-3	214.60	214.50	Flake Fragment	Onondaga chert	1
3747.00	97	220	I-3	214.60	214.50	Middle stage reduction flake	Onondaga chert	5
3747.00	97	220	I-3	214.60	214.50	Flake Fragment	Brush Creek chert	1
3747.00	97	220	I-3	214.60	214.50	Middle stage reduction flake	Onondaga chert	1
3747.00	97	220	I-3	214.60	214.50	Middle stage reduction flake	Onondaga chert	1
3747.00	97	220	I-3	214.60	214.50	Middle stage reduction flake	Onondaga chert	1
3747.00	97	220	I-3	214.60	214.50	Late stage reduction flake	Onondaga chert	11
3747.00	97	220	I-3	214.60	214.50	Late stage reduction flake	Onondaga chert	1
3747.00	97	220	I-3	214.60	214.50	Flake Fragment	Onondaga chert	14
3747.00	97	220	I-3	214.60	214.50	Flake Fragment	Onondaga chert	1
3747.00	97	220	I-3	214.60	214.50	Flake Fragment	Onondaga chert	1
3747.00	97	220	I-3	214.60	214.50	Early stage reduction flake	Onondaga chert	1
3747.00	97	220	I-3	214.60	214.50	Flake Fragment	Onondaga chert	1
3748.00	97	221	I-2	214.77	214.67	Flake Fragment	Brush Creek chert	7
3748.00	97	221	I-2	214.77	214.67	Flake Fragment	Onondaga chert	1
3748.00	97	221	I-2	214.77	214.67	Flake Fragment	Onondaga chert	1
3748.00	97	221	I-2	214.77	214.67	Early stage reduction flake	Brush Creek chert	1
3748.00	97	221	I-2	214.77	214.67	Early stage reduction flake	Brush Creek chert	1
3748.00	97	221	I-2	214.77	214.67	Middle stage reduction flake	Brush Creek chert	14
3748.00	97	221	I-2	214.77	214.67	Middle stage reduction flake	Brush Creek chert	1
3748.00	97	221	I-2	214.77	214.67	Middle stage reduction flake	Brush Creek chert	1
3748.00	97	221	I-2	214.77	214.67	Flake Fragment	Onondaga chert	1
3748.00	97	221	I-2	214.77	214.67	Shatter	Brush Creek chert	1
3748.00	97	221	I-2	214.77	214.67	Flake Fragment	Onondaga chert	1
3748.00	97	221	I-2	214.77	214.67	Flake Fragment	Brush Creek chert	1
3748.00	97	221	I-2	214.77	214.67	Flake Fragment	Brush Creek chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3748.00	97	221	I-2	214.77	214.67	Flake Fragment	Brush Creek chert	1
3748.00	97	221	I-2	214.77	214.67	Flake Fragment	Brush Creek chert	1
3748.00	97	221	I-2	214.77	214.67	Other projectile point	Brush Creek chert	1
3748.00	97	221	I-2	214.77	214.67	Flake Fragment	Brush Creek chert	1
3748.00	97	221	I-2	214.77	214.67	Middle stage reduction flake	Brush Creek chert	2
3748.00	97	221	I-2	214.77	214.67	Late stage reduction flake	Brush Creek chert	2
3748.00	97	221	I-2	214.77	214.67	Fire-cracked rock	Sandstone	21
3748.00	97	221	I-2	214.77	214.67	Middle stage reduction flake	Brush Creek chert	1
3748.00	97	221	I-2	214.77	214.67	Utilized flake	Brush Creek chert	1
3748.00	97	221	I-2	214.77	214.67	Early stage reduction flake	Onondaga chert	1
3748.00	97	221	I-2	214.77	214.67	Early stage reduction flake	Onondaga chert	1
3748.00	97	221	I-2	214.77	214.67	Early stage reduction flake	Onondaga chert	1
3748.00	97	221	I-2	214.77	214.67	Middle stage reduction flake	Onondaga chert	5
3748.00	97	221	I-2	214.77	214.67	Middle stage reduction flake	Onondaga chert	1
3748.00	97	221	I-2	214.77	214.67	Flake Fragment	Onondaga chert	1
3748.00	97	221	I-2	214.77	214.67	Middle stage reduction flake	Onondaga chert	1
3748.00	97	221	I-2	214.77	214.67	Middle stage reduction flake	Onondaga chert	1
3748.00	97	221	I-2	214.77	214.67	Late stage reduction flake	Onondaga chert	3
3748.00	97	221	I-2	214.77	214.67	Flake Fragment	Onondaga chert	8
3748.00	97	221	I-2	214.77	214.67	Biface fragments	Brush Creek chert	1
3748.00	97	221	I-2	214.77	214.67	Flake Fragment	Onondaga chert	1
3748.00	97	221	I-2	214.77	214.67	Biface fragments	Onondaga chert	1
3748.00	97	221	I-2	214.77	214.67	Flake Fragment	Onondaga chert	1
3748.00	97	221	I-2	214.77	214.67	Middle stage reduction flake	Onondaga chert	1
3749.00	97	221	I-3	214.60	N/A	Flake Fragment	Onondaga chert	1
3749.00	97	221	I-3	214.60	N/A	Flake Fragment	Sandstone	1
3749.00	97	221	I-3	214.60	N/A	Flake Fragment	Brush Creek chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3749.00	97	221	I-3	214.60	N/A	Early stage reduction flake	Brush Creek chert	1
3749.00	97	221	I-3	214.60	N/A	Flake Fragment	Brush Creek chert	1
3749.00	97	221	I-3	214.60	N/A	Flake Fragment	Brush Creek chert	1
3749.00	97	221	I-3	214.60	N/A	Flake Fragment	Brush Creek chert	1
3749.00	97	221	I-3	214.60	N/A	Utilized Biface	Vanport chert	1
3749.00	97	221	I-3	214.60	N/A	Flake Fragment	Brush Creek chert	1
3749.00	97	221	I-3	214.60	N/A	Flake Fragment	Onondaga chert	1
3749.00	97	221	I-3	214.60	N/A	Flake Fragment	Brush Creek chert	1
3749.00	97	221	I-3	214.60	N/A	Middle stage reduction flake	Brush Creek chert	1
3749.00	97	221	I-3	214.60	N/A	Flake Fragment	Brush Creek chert	7
3749.00	97	221	I-3	214.60	N/A	Flake Fragment	Brush Creek chert	1
3749.00	97	221	I-3	214.60	N/A	Flake Fragment	Brush Creek chert	2
3749.00	97	221	I-3	214.60	N/A	Middle stage reduction flake	Vanport chert	2
3749.00	97	221	I-3	214.60	N/A	Late stage reduction flake	Uniontown chert	1
3749.00	97	221	I-3	214.60	N/A	Fire-cracked rock	Sandstone	10
3749.00	97	221	I-3	214.60	N/A	Flake Fragment	Brush Creek chert	1
3749.00	97	221	I-3	214.60	N/A	Middle stage reduction flake	Onondaga chert	5
3749.00	97	221	I-3	214.60	N/A	Flake Fragment	Onondaga chert	1
3749.00	97	221	I-3	214.60	N/A	Flake Fragment	Onondaga chert	1
3749.00	97	221	I-3	214.60	N/A	Flake Fragment	Onondaga chert	18
3749.00	97	221	I-3	214.60	N/A	Early stage reduction flake	Onondaga chert	1
3749.00	97	221	I-3	214.60	N/A	Middle stage reduction flake	Onondaga chert	1
3749.00	97	221	I-3	214.60	N/A	Middle stage reduction flake	Onondaga chert	1
3749.00	97	221	I-3	214.60	N/A	Early stage reduction flake	Brush Creek chert	1
3749.00	97	221	I-3	214.60	N/A	Middle stage reduction flake	Onondaga chert	1
3749.00	97	221	I-3	214.60	N/A	Middle stage reduction flake	Brush Creek chert	1
3749.00	97	221	I-3	214.60	N/A	Middle stage reduction flake	Onondaga chert	3
3749.00	97	221	I-3	214.60	N/A	Late stage reduction flake	Onondaga chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3749.00	97	221	I-3	214.60	N/A	Late stage reduction flake	Onondaga chert	7
3749.00	97	221	I-3	214.60	N/A	Late stage reduction flake	Brush Creek chert	1
3749.00	97	221	I-3	214.60	N/A	Late stage reduction flake	Brush Creek chert	5
3749.00	97	221	I-3	214.60	N/A	Middle stage reduction flake	Brush Creek chert	1
3749.00	97	221	I-3	214.60	N/A	Middle stage reduction flake	Brush Creek chert	1
3749.00	97	221	I-3	214.60	N/A	Slag		1
3749.00	97	221	I-3	214.60	N/A	Middle stage reduction flake	Onondaga chert	1
3749.00	97	221	I-3	214.60	N/A	Early stage reduction flake	Brush Creek chert	1
3750.00	97	221	I-3B	N/A	214.51	Middle stage reduction flake	Brush Creek chert	1
3750.00	97	221	I-3B	N/A	214.51	Middle stage reduction flake	Brush Creek chert	1
3750.00	97	221	I-3B	N/A	214.51	Late stage reduction flake	Brush Creek chert	3
3750.00	97	221	I-3B	N/A	214.51	Shatter	Brush Creek chert	1
3750.00	97	221	I-3B	N/A	214.51	Flake Fragment	Brush Creek chert	5
3750.00	97	221	I-3B	N/A	214.51	Flake Fragment	Brush Creek chert	1
3750.00	97	221	I-3B	N/A	214.51	Flake Fragment	Brush Creek chert	1
3750.00	97	221	I-3B	N/A	214.51	Flake Fragment	Brush Creek chert	1
3750.00	97	221	I-3B	N/A	214.51	Middle stage reduction flake	Brush Creek chert	4
3750.00	97	221	I-3B	N/A	214.51	Fire-cracked rock	Sandstone	9
3750.00	97	221	I-3B	N/A	214.51	Flake Fragment	Shale	1
3750.00	97	221	I-3B	N/A	214.51	Flake Fragment	Onondaga chert	5
3750.00	97	221	I-3B	N/A	214.51	Late stage reduction flake	Onondaga chert	1
3750.00	97	221	I-3B	N/A	214.51	Late stage reduction flake	Onondaga chert	5
3750.00	97	221	I-3B	N/A	214.51	Middle stage reduction flake	Onondaga chert	1
3750.00	97	221	I-3B	N/A	214.51	Late stage reduction flake	Upper Mercer chert	1
3750.00	97	221	I-3B	N/A	214.51	Flake Fragment	Sandstone	1
3750.00	97	221	I-3B	N/A	214.51	Flake Fragment	Brush Creek chert	1
3750.00	97	221	I-3B	N/A	214.51	Middle stage reduction flake	Onondaga chert	3

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3751.00	97	222	I-3	214.65	214.55	Flake Fragment	Brush Creek chert	1
3751.00	97	222	I-3	214.65	214.55	Middle stage reduction flake	Brush Creek chert	1
3751.00	97	222	I-3	214.65	214.55	Flake Fragment	Brush Creek chert	1
3751.00	97	222	I-3	214.65	214.55	Late stage reduction flake	Brush Creek chert	12
3751.00	97	222	I-3	214.65	214.55	Middle stage reduction flake	Uniontown chert	1
3751.00	97	222	I-3	214.65	214.55	Late stage reduction flake	Brush Creek chert	1
3751.00	97	222	I-3	214.65	214.55	Middle stage reduction flake	Brush Creek chert	9
3751.00	97	222	I-3	214.65	214.55	Flake Fragment	Brush Creek chert	1
3751.00	97	222	I-3	214.65	214.55	Flake Fragment	Brush Creek chert	1
3751.00	97	222	I-3	214.65	214.55	Flake Fragment	Brush Creek chert	1
3751.00	97	222	I-3	214.65	214.55	Late stage reduction flake	Uniontown chert	3
3751.00	97	222	I-3	214.65	214.55	Other chipped stone tools	Onondaga chert	1
3751.00	97	222	I-3	214.65	214.55	Core more reduction	Onondaga chert	1
3751.00	97	222	I-3	214.65	214.55	C-14 sample		1
3751.00	97	222	I-3	214.65	214.55	Fire-cracked rock	Sandstone	9
3751.00	97	222	I-3	214.65	214.55	Early stage reduction flake	Uniontown chert	1
3751.00	97	222	I-3	214.65	214.55	Middle stage reduction flake	Brush Creek chert	2
3751.00	97	222	I-3	214.65	214.55	Middle stage reduction flake	Brush Creek chert	1
3751.00	97	222	I-3	214.65	214.55	Early stage reduction flake	Uniontown chert	1
3751.00	97	222	I-3	214.65	214.55	Late stage reduction flake	Brush Creek chert	2
3751.00	97	222	I-3	214.65	214.55	Flake Fragment	Brush Creek chert	1
3751.00	97	222	I-3	214.65	214.55	Early stage reduction flake	Uniontown chert	1
3751.00	97	222	I-3	214.65	214.55	Middle stage reduction flake	Uniontown chert	1
3751.00	97	222	I-3	214.65	214.55	Middle stage reduction flake	Brush Creek chert	1
3751.00	97	222	I-3	214.65	214.55	Flake Fragment	Uniontown chert	1
3751.00	97	222	I-3	214.65	214.55	Flake Fragment	Brush Creek chert	4
3751.00	97	222	I-3	214.65	214.55	Flake Fragment	Brush Creek chert	1

2002 Field Season

Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3751.00	97	222	I-3	214.65	214.55	Flake Fragment	Brush Creek chert	1
3751.00	97	222	I-3	214.65	214.55	Middle stage reduction flake	Brush Creek chert	1
3751.00	97	222	I-3	214.65	214.55	Middle stage reduction flake	Onondaga chert	1
3751.00	97	222	I-3	214.65	214.55	Middle stage reduction flake	Brush Creek chert	1
3751.00	97	222	I-3	214.65	214.55	Flake Fragment	Onondaga chert	1
3751.00	97	222	I-3	214.65	214.55	Flake Fragment	Onondaga chert	1
3751.00	97	222	I-3	214.65	214.55	Flake Fragment	Onondaga chert	16
3751.00	97	222	I-3	214.65	214.55	Late stage reduction flake	Onondaga chert	1
3751.00	97	222	I-3	214.65	214.55	Late stage reduction flake	Onondaga chert	16
3751.00	97	222	I-3	214.65	214.55	Middle stage reduction flake	Onondaga chert	1
3751.00	97	222	I-3	214.65	214.55	Flake Fragment	Onondaga chert	1
3751.00	97	222	I-3	214.65	214.55	Middle stage reduction flake	Onondaga chert	1
3751.00	97	222	I-3	214.65	214.55	Middle stage reduction flake	Onondaga chert	1
3751.00	97	222	I-3	214.65	214.55	Flake Fragment	Onondaga chert	1
3751.00	97	222	I-3	214.65	214.55	Middle stage reduction flake	Onondaga chert	1
3751.00	97	222	I-3	214.65	214.55	Flake Fragment	Onondaga chert	1
3751.00	97	222	I-3	214.65	214.55	Early stage reduction flake	Brush Creek chert	1
3751.00	97	222	I-3	214.65	214.55	Middle stage reduction flake	Brush Creek chert	1
3751.00	97	222	I-3	214.65	214.55	Middle stage reduction flake	Onondaga chert	1
3751.00	97	222	I-3	214.65	214.55	Middle stage reduction flake	Onondaga chert	16
3751.00	97	222	I-3	214.65	214.55	Early stage reduction flake	Onondaga chert	1
3751.00	97	222	I-3	214.65	214.55	Flake Fragment	Onondaga chert	1
3751.00	97	222	I-3	214.65	214.55	Early stage reduction flake	Brush Creek chert	1
3751.00	97	222	I-3	214.65	214.55	Flake Fragment	Onondaga chert	1
3751.00	97	222	I-3	214.65	214.55	Early stage reduction flake	Brush Creek chert	1
3751.00	97	222	I-3	214.65	214.55	Flake Fragment	Onondaga chert	1
3751.00	97	222	I-3	214.65	214.55	Early stage reduction flake	Brush Creek chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3751.00	97	222	I-3	214.65	214.55	Early stage reduction flake	Brush Creek chert	1
3752.00	98	215	I-1	214.94	214.81	Fire-cracked rock	Sandstone	4
3752.00	98	215	I-1	214.94	214.81	Middle stage reduction flake	Onondaga chert	1
3752.00	98	215	I-1	214.94	214.81	Middle stage reduction flake	Brush Creek chert	1
3753.00	98	215	I-2	214.81	214.74	Fire-cracked rock	Sandstone	5
3753.00	98	215	I-2	214.81	214.74	Flake Fragment	Onondaga chert	2
3753.00	98	215	I-2	214.81	214.74	Late stage reduction flake	Brush Creek chert	1
3753.00	98	215	I-2	214.81	214.74	Early stage reduction flake	Onondaga chert	1
3754.00	98	216	I-1	214.88	214.79	Shatter	Onondaga chert	1
3754.00	98	216	I-1	214.88	214.79	Flake Fragment	Shale	1
3754.00	98	216	I-1	214.88	214.79	Fire-cracked rock	Sandstone	15
3754.00	98	216	I-1	214.88	214.79	Flake Fragment	Onondaga chert	4
3754.00	98	216	I-1	214.88	214.79	Middle stage reduction flake	Onondaga chert	1
3755.00	98	217	I-1	214.87	214.72	Middle stage reduction flake	Brush Creek chert	1
3755.00	98	217	I-1	214.87	214.72	Flake Fragment	Onondaga chert	3
3755.00	98	217	I-1	214.87	214.72	Middle stage reduction flake	Onondaga chert	3
3755.00	98	217	I-1	214.87	214.72	Early stage reduction flake	Onondaga chert	1
3755.00	98	217	I-1	214.87	214.72	Flake Fragment	Brush Creek chert	1
3755.00	98	217	I-1	214.87	214.72	Flake Fragment	Brush Creek chert	1
3755.00	98	217	I-1	214.87	214.72	Flake Fragment	Brush Creek chert	1
3755.00	98	217	I-1	214.87	214.72	Middle stage reduction flake	Brush Creek chert	1
3755.00	98	217	I-1	214.87	214.72	Fire-cracked rock	Sandstone	26
3755.00	98	217	I-1	214.87	214.72	Eroded, unidentifiable temper		1
3755.00	98	217	I-1	214.87	214.72	Middle stage reduction flake	Uniontown chert	1
3755.00	98	217	I-1	214.87	214.72	Flake Fragment	Brush Creek chert	1
3755.00	98	217	I-1	214.87	214.72	Flake Fragment	Other raw material	1
3756.00	98	217	I-2	214.72	214.65	Fire-cracked rock	Sandstone	14

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3756.00	98	217	I-2	214.72	214.65	Other projectile point	Brush Creek chert	1
3756.00	98	217	I-2	214.72	214.65	Late stage reduction flake	Onondaga chert	1
3756.00	98	217	I-2	214.72	214.65	Flake Fragment	Brush Creek chert	1
3756.00	98	217	I-2	214.72	214.65	Flake Fragment	Brush Creek chert	1
3756.00	98	217	I-2	214.72	214.65	Flake Fragment	Sandstone	1
3756.00	98	217	I-2	214.72	214.65	Early stage reduction flake	Onondaga chert	1
3756.00	98	217	I-2	214.72	214.65	Early stage reduction flake	Onondaga chert	1
3756.00	98	217	I-2	214.72	214.65	Flake Fragment	Upper Mercer chert	1
3756.00	98	217	I-2	214.72	214.65	Middle stage reduction flake	Onondaga chert	4
3756.00	98	217	I-2	214.72	214.65	Flake Fragment	Onondaga chert	1
3756.00	98	217	I-2	214.72	214.65	Flake Fragment	Sandstone	1
3756.00	98	217	I-2	214.72	214.65	Late stage reduction flake	Brush Creek chert	3
3756.00	98	217	I-2	214.72	214.65	Flake Fragment	Brush Creek chert	1
3756.00	98	217	I-2	214.72	214.65	Flake Fragment	Brush Creek chert	1
3756.00	98	217	I-2	214.72	214.65	Flake Fragment	Brush Creek chert	1
3756.00	98	217	I-2	214.72	214.65	Flake Fragment	Brush Creek chert	1
3757.00	98	218	I-1	214.82	214.70	Early stage reduction flake	Brush Creek chert	1
3757.00	98	218	I-1	214.82	214.70	Middle stage reduction flake	Onondaga chert	1
3757.00	98	218	I-1	214.82	214.70	Middle stage reduction flake	Brush Creek chert	1
3757.00	98	218	I-1	214.82	214.70	Middle stage reduction flake	Brush Creek chert	2
3757.00	98	218	I-1	214.82	214.70	Middle stage reduction flake	Brush Creek chert	1
3757.00	98	218	I-1	214.82	214.70	Middle stage reduction flake	Brush Creek chert	2
3757.00	98	218	I-1	214.82	214.70	Early stage reduction flake	Brush Creek chert	1
3757.00	98	218	I-1	214.82	214.70	Flake Fragment	Brush Creek chert	2
3757.00	98	218	I-1	214.82	214.70	Early stage reduction flake	Onondaga chert	1
3757.00	98	218	I-1	214.82	214.70	Middle stage reduction flake	Onondaga chert	1
3757.00	98	218	I-1	214.82	214.70	Middle stage reduction flake	Onondaga chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3757.00	98	218	I-1	214.82	214.70	Late stage reduction flake	Onondaga chert	3
3757.00	98	218	I-1	214.82	214.70	Shatter	Onondaga chert	1
3757.00	98	218	I-1	214.82	214.70	Flake Fragment	Onondaga chert	2
3757.00	98	218	I-1	214.82	214.70	Fire-cracked rock	Sandstone	3
3757.00	98	218	I-1	214.82	214.70	Middle stage reduction flake	Onondaga chert	1
3758.00	98	218	I-2	214.78	214.63	Middle stage reduction flake	Uniontown chert	1
3758.00	98	218	I-2	214.78	214.63	Flake Fragment	Onondaga chert	1
3758.00	98	218	I-2	214.78	214.63	Early stage reduction flake	Uniontown chert	1
3758.00	98	218	I-2	214.78	214.63	Early stage reduction flake	Brush Creek chert	1
3758.00	98	218	I-2	214.78	214.63	Middle stage reduction flake	Brush Creek chert	4
3758.00	98	218	I-2	214.78	214.63	Middle stage reduction flake	Brush Creek chert	1
3758.00	98	218	I-2	214.78	214.63	Middle stage reduction flake	Brush Creek chert	1
3758.00	98	218	I-2	214.78	214.63	Middle stage reduction flake	Brush Creek chert	1
3758.00	98	218	I-2	214.78	214.63	Flake Fragment	Brush Creek chert	2
3758.00	98	218	I-2	214.78	214.63	Flake Fragment	Brush Creek chert	1
3758.00	98	218	I-2	214.78	214.63	Middle stage reduction flake	Uniontown chert	2
3758.00	98	218	I-2	214.78	214.63	Middle stage reduction flake	Uniontown chert	1
3758.00	98	218	I-2	214.78	214.63	Flake Fragment	Onondaga chert	1
3758.00	98	218	I-2	214.78	214.63	Flake Fragment	Brush Creek chert	1
3758.00	98	218	I-2	214.78	214.63	Flake Fragment	Onondaga chert	1
3758.00	98	218	I-2	214.78	214.63	Late stage reduction flake	Onondaga chert	2
3758.00	98	218	I-2	214.78	214.63	Late stage reduction flake	Onondaga chert	1
3758.00	98	218	I-2	214.78	214.63	Late stage reduction flake	Onondaga chert	1
3758.00	98	218	I-2	214.78	214.63	Middle stage reduction flake	Onondaga chert	2
3758.00	98	218	I-2	214.78	214.63	Middle stage reduction flake	Onondaga chert	1
3758.00	98	218	I-2	214.78	214.63	Middle stage reduction flake	Onondaga chert	1
3758.00	98	218	I-2	214.78	214.63	Middle stage reduction flake	Onondaga chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3758.00	98	218	I-2	214.78	214.63	Middle stage reduction flake	Onondaga chert	1
3758.00	98	218	I-2	214.78	214.63	Early stage reduction flake	Onondaga chert	1
3758.00	98	218	I-2	214.78	214.63	Flake Fragment	Onondaga chert	1
3758.00	98	218	I-2	214.78	214.63	Charcoal sample		1
3758.00	98	218	I-2	214.78	214.63	Fire-cracked rock	Sandstone	30
3758.00	98	218	I-2	214.78	214.63	Flake Fragment	Onondaga chert	7
3758.00	98	218	I-2	214.78	214.63	Middle stage reduction flake	Vanport chert	1
3759.00	98	219	I-1	214.82	214.72	Indeterminate container glass	Amber	2
3759.00	98	219	I-1	214.82	214.72	Biface fragments	Upper Mercer chert	1
3759.00	98	219	I-1	214.82	214.72	Middle stage reduction flake	Onondaga chert	2
3759.00	98	219	I-1	214.82	214.72	Early stage reduction flake	Onondaga chert	1
3759.00	98	219	I-1	214.82	214.72	Prismatic blade	Onondaga chert	1
3759.00	98	219	I-1	214.82	214.72	Middle stage reduction flake	Brush Creek chert	1
3759.00	98	219	I-1	214.82	214.72	Middle stage reduction flake	Brush Creek chert	1
3759.00	98	219	I-1	214.82	214.72	Early stage reduction flake	Brush Creek chert	1
3759.00	98	219	I-1	214.82	214.72	Unidentifiable curved glass	Olive green	1
3759.00	98	219	I-1	214.82	214.72	Indeterminate container glass	Colorless	7
3759.00	98	219	I-1	214.82	214.72	Whiteware, Plain	Body - Unidentifiable	2
3759.00	98	219	I-1	214.82	214.72	Brick		2
3759.00	98	219	I-1	214.82	214.72	Middle stage reduction flake	Brush Creek chert	1
3759.00	98	219	I-1	214.82	214.72	Flake Fragment	Onondaga chert	3
3759.00	98	219	I-1	214.82	214.72	Late stage reduction flake	Onondaga chert	1
3759.00	98	219	I-1	214.82	214.72	Wire nail		1
3759.00	98	219	I-1	214.82	214.72	Glass Liner	Milk Glass	1
3759.00	98	219	I-1	214.82	214.72	Miscellaneous plastic		1
3759.00	98	219	I-1	214.82	214.72	Fire-cracked rock	Sandstone	24

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3760.00	98	219	I-2	214.72	214.62	Early stage reduction flake	Onondaga chert	1
3760.00	98	219	I-2	214.72	214.62	Middle stage reduction flake	Onondaga chert	9
3760.00	98	219	I-2	214.72	214.62	Middle stage reduction flake	Onondaga chert	1
3760.00	98	219	I-2	214.72	214.62	S-twist cordmarked, grog temper		1
3760.00	98	219	I-2	214.72	214.62	Early stage reduction flake	Onondaga chert	1
3760.00	98	219	I-2	214.72	214.62	Flake Fragment	Brush Creek chert	1
3760.00	98	219	I-2	214.72	214.62	Flake Fragment	Brush Creek chert	1
3760.00	98	219	I-2	214.72	214.62	Flake Fragment	Brush Creek chert	6
3760.00	98	219	I-2	214.72	214.62	Late stage reduction flake	Brush Creek chert	1
3760.00	98	219	I-2	214.72	214.62	Expanding stem point	Onondaga chert	1
3760.00	98	219	I-2	214.72	214.62	Middle stage reduction flake	Brush Creek chert	1
3760.00	98	219	I-2	214.72	214.62	Flake Fragment	Onondaga chert	13
3760.00	98	219	I-2	214.72	214.62	Shatter	Onondaga chert	1
3760.00	98	219	I-2	214.72	214.62	Early stage reduction flake	Brush Creek chert	1
3760.00	98	219	I-2	214.72	214.62	Flake Fragment	Siltstone	3
3760.00	98	219	I-2	214.72	214.62	Tested cobble	Sandstone	1
3760.00	98	219	I-2	214.72	214.62	Eroded, limestone temper		1
3760.00	98	219	I-2	214.72	214.62	Utilized flake	Brush Creek chert	1
3760.00	98	219	I-2	214.72	214.62	Middle stage reduction flake	Brush Creek chert	4
3760.00	98	219	I-2	214.72	214.62	Early stage reduction flake	Brush Creek chert	1
3760.00	98	219	I-2	214.72	214.62	Flake Fragment	Brush Creek chert	1
3760.00	98	219	I-2	214.72	214.62	Middle stage reduction flake	Brush Creek chert	1
3760.00	98	219	I-2	214.72	214.62	Fire-cracked rock	Sandstone	29
3760.00	98	219	I-2	214.72	214.62	Late stage reduction flake	Onondaga chert	5
3761.00	98	220	I-3	214.63	214.53	Middle stage reduction flake	Brush Creek chert	3
3761.00	98	220	I-3	214.63	214.53	Flake Fragment	Onondaga chert	1
3761.00	98	220	I-3	214.63	214.53	Flake Fragment	Onondaga chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3761.00	98	220	I-3	214.63	214.53	Flake Fragment	Onondaga chert	1
3761.00	98	220	I-3	214.63	214.53	Flake Fragment	Onondaga chert	14
3761.00	98	220	I-3	214.63	214.53	Late stage reduction flake	Onondaga chert	5
3761.00	98	220	I-3	214.63	214.53	Middle stage reduction flake	Onondaga chert	1
3761.00	98	220	I-3	214.63	214.53	Middle stage reduction flake	Onondaga chert	1
3761.00	98	220	I-3	214.63	214.53	Middle stage reduction flake	Onondaga chert	7
3761.00	98	220	I-3	214.63	214.53	Flake Fragment	Onondaga chert	1
3761.00	98	220	I-3	214.63	214.53	Flake Fragment	Brush Creek chert	4
3761.00	98	220	I-3	214.63	214.53	Early stage reduction flake	Brush Creek chert	1
3761.00	98	220	I-3	214.63	214.53	Early stage reduction flake	Brush Creek chert	1
3761.00	98	220	I-3	214.63	214.53	Early stage reduction flake	Brush Creek chert	1
3761.00	98	220	I-3	214.63	214.53	Flake Fragment	Brush Creek chert	1
3761.00	98	220	I-3	214.63	214.53	Shatter	Vanport chert	1
3761.00	98	220	I-3	214.63	214.53	Middle stage reduction flake	Brush Creek chert	1
3761.00	98	220	I-3	214.63	214.53	Late stage reduction flake	Uniontown chert	1
3761.00	98	220	I-3	214.63	214.53	Middle stage reduction flake	Uniontown chert	1
3761.00	98	220	I-3	214.63	214.53	Flake Fragment	Other raw material	1
3761.00	98	220	I-3	214.63	214.53	Flake Fragment	Brush Creek chert	1
3761.00	98	220	I-3	214.63	214.53	Fire-cracked rock	Sandstone	15
3761.00	98	220	I-3	214.63	214.53	Flake Fragment	Brush Creek chert	1
3762.00	98	220	I-3	214.63	214.53	C-14 sample		1
3763.00	98	221	I-3	214.62	214.52	Late stage reduction flake	Brush Creek chert	1
3763.00	98	221	I-3	214.62	214.52	Flake Fragment	Onondaga chert	1
3763.00	98	221	I-3	214.62	214.52	Flake Fragment	Onondaga chert	1
3763.00	98	221	I-3	214.62	214.52	Flake Fragment	Onondaga chert	1
3763.00	98	221	I-3	214.62	214.52	Flake Fragment	Onondaga chert	1
3763.00	98	221	I-3	214.62	214.52	Flake Fragment	Onondaga chert	1
3763.00	98	221	I-3	214.62	214.52	Flake Fragment	Onondaga chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3763.00	98	221	I-3	214.62	214.52	Flake Fragment	Onondaga chert	1
3763.00	98	221	I-3	214.62	214.52	Shatter	Onondaga chert	1
3763.00	98	221	I-3	214.62	214.52	Middle stage reduction flake	Onondaga chert	2
3763.00	98	221	I-3	214.62	214.52	Early stage reduction flake	Onondaga chert	1
3763.00	98	221	I-3	214.62	214.52	Flake Fragment	Onondaga chert	1
3763.00	98	221	I-3	214.62	214.52	Flake Fragment	Brush Creek chert	3
3763.00	98	221	I-3	214.62	214.52	Flake Fragment	Onondaga chert	9
3763.00	98	221	I-3	214.62	214.52	Middle stage reduction flake	Brush Creek chert	1
3763.00	98	221	I-3	214.62	214.52	Middle stage reduction flake	Brush Creek chert	3
3763.00	98	221	I-3	214.62	214.52	Flake Fragment	Vanport chert	1
3763.00	98	221	I-3	214.62	214.52	Middle stage reduction flake	Brush Creek chert	1
3763.00	98	221	I-3	214.62	214.52	Slag		1
3763.00	98	221	I-3	214.62	214.52	Fire-cracked rock	Sandstone	9
3763.00	98	221	I-3	214.62	214.52	Flake Fragment	Brush Creek chert	1
3763.00	98	221	I-3	214.62	214.52	Biface fragments	Brush Creek chert	1
3763.00	98	221	I-3	214.62	214.52	Late stage reduction flake	Onondaga chert	2
3764.00	98	222	I-3	214.69	214.48	Flake Fragment	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Late stage reduction flake	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Late stage reduction flake	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Late stage reduction flake	Onondaga chert	36
3764.00	98	222	I-3	214.69	214.48	Flake Fragment	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Flake Fragment	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Flake Fragment	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Flake Fragment	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Flake Fragment	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Flake Fragment	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Flake Fragment	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Flake Fragment	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Tested cobble	Sandstone	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3764.00	98	222	I-3	214.69	214.48	Flake Fragment	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Flake Fragment	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Flake Fragment	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Flake Fragment	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Utilized flake	Brush Creek chert	1
3764.00	98	222	I-3	214.69	214.48	Flake Fragment	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Fire-cracked rock	Sandstone	5
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Monongahela chert	1
3764.00	98	222	I-3	214.69	214.48	Early stage reduction flake	Brush Creek chert	1
3764.00	98	222	I-3	214.69	214.48	Flake Fragment	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Onondaga chert	5
3764.00	98	222	I-3	214.69	214.48	Late stage reduction flake	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Late stage reduction flake	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Flake Fragment	Onondaga chert	51
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Brush Creek chert	1
3764.00	98	222	I-3	214.69	214.48	Flake Fragment	Brush Creek chert	1
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Early stage reduction flake	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Early stage reduction flake	Onondaga chert	1
3764.00	98	222	I-3	214.69	214.48	Early stage reduction flake	Onondaga chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Brush Creek chert	1
3764.00	98	222	I-3	214.69	214.48	Flake Fragment	Monongahela chert	1
3764.00	98	222	I-3	214.69	214.48	Early stage reduction flake	Brush Creek chert	1
3764.00	98	222	I-3	214.69	214.48	Late stage reduction flake	Brush Creek chert	2
3764.00	98	222	I-3	214.69	214.48	Late stage reduction flake	Kanawha chert	1
3764.00	98	222	I-3	214.69	214.48	Raw material	Brush Creek chert	1
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Brush Creek chert	1
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Brush Creek chert	1
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Brush Creek chert	1
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Brush Creek chert	1
3764.00	98	222	I-3	214.69	214.48	Late stage reduction flake	Monongahela chert	2
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Brush Creek chert	1
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Brush Creek chert	1
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Brush Creek chert	1
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Brush Creek chert	1
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Brush Creek chert	16
3764.00	98	222	I-3	214.69	214.48	Early stage reduction flake	Brush Creek chert	1
3764.00	98	222	I-3	214.69	214.48	Middle stage reduction flake	Brush Creek chert	1
3765.00	99	215	I-1	215.02	214.85	Middle stage reduction flake	Onondaga chert	1
3765.00	99	215	I-1	215.02	214.85	Flake Fragment	Brush Creek chert	1
3765.00	99	215	I-1	215.02	214.85	Flake Fragment	Brush Creek chert	1
3765.00	99	215	I-1	215.02	214.85	Middle stage reduction flake	Brush Creek chert	1
3765.00	99	215	I-1	215.02	214.85	Fire-cracked rock	Quartzite	1
3765.00	99	215	I-1	215.02	214.85	Early stage reduction flake	Onondaga chert	1
3765.00	99	215	I-1	215.02	214.85	Middle stage reduction flake	Onondaga chert	1
3765.00	99	215	I-1	215.02	214.85	Shatter	Onondaga chert	1
3765.00	99	215	I-1	215.02	214.85	Flake Fragment	Onondaga chert	1
3765.00	99	215	I-1	215.02	214.85	Flake Fragment	Brush Creek chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3765.00	99	215	I-1	215.02	214.85	Flake Fragment	Onondaga chert	1
3766.00	99	215	I-2	214.85	214.79	Fire-cracked rock	Sandstone	14
3766.00	99	215	I-2	214.85	214.79	Early stage reduction flake	Onondaga chert	1
3766.00	99	215	I-2	214.85	214.79	Middle stage reduction flake	Onondaga chert	1
3766.00	99	215	I-2	214.85	214.79	Late stage reduction flake	Onondaga chert	2
3767.00	99	216	I-2	214.83	214.73	Flake Fragment	Brush Creek chert	1
3767.00	99	216	I-2	214.83	214.73	Fire-cracked rock	Sandstone	14
3768.00	99	217	I-1	214.93	214.82	Late stage reduction flake	Onondaga chert	2
3768.00	99	217	I-1	214.93	214.82	Flake Fragment	Onondaga chert	1
3768.00	99	217	I-1	214.93	214.82	Flake Fragment	Onondaga chert	1
3768.00	99	217	I-1	214.93	214.82	Flake Fragment	Onondaga chert	1
3768.00	99	217	I-1	214.93	214.82	Flake Fragment	Brush Creek chert	1
3768.00	99	217	I-1	214.93	214.82	Fire-cracked rock	Sandstone	18
3768.00	99	217	I-1	214.93	214.82	Middle stage reduction flake	Onondaga chert	1
3769.00	99	217	I-2	214.82	214.62	Flake Fragment	Brush Creek chert	1
3769.00	99	217	I-2	214.82	214.62	Early stage reduction flake	Brush Creek chert	1
3769.00	99	217	I-2	214.82	214.62	Middle stage reduction flake	Brush Creek chert	3
3769.00	99	217	I-2	214.82	214.62	Flake Fragment	Brush Creek chert	3
3769.00	99	217	I-2	214.82	214.62	Flake Fragment	Brush Creek chert	1
3769.00	99	217	I-2	214.82	214.62	S-twist cordmarked, grog temper		1
3769.00	99	217	I-2	214.82	214.62	Flake Fragment	Brush Creek chert	1
3769.00	99	217	I-2	214.82	214.62	Flake Fragment	Quartzite	1
3769.00	99	217	I-2	214.82	214.62	Early stage reduction flake	Onondaga chert	1
3769.00	99	217	I-2	214.82	214.62	Fire-cracked rock	Sandstone	18
3769.00	99	217	I-2	214.82	214.62	Flake Fragment	Sandstone	1
3769.00	99	217	I-2	214.82	214.62	Flake Fragment	Brush Creek chert	1
3769.00	99	217	I-2	214.82	214.62	Flake Fragment	Onondaga chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3769.00	99	217	I-2	214.82	214.62	Flake Fragment	Onondaga chert	1
3769.00	99	217	I-2	214.82	214.62	Flake Fragment	Onondaga chert	4
3769.00	99	217	I-2	214.82	214.62	Flake Fragment	Brush Creek chert	1
3769.00	99	217	I-2	214.82	214.62	Flake Fragment	Brush Creek chert	1
3769.00	99	217	I-2	214.82	214.62	Late stage reduction flake	Onondaga chert	1
3769.00	99	217	I-2	214.82	214.62	Middle stage reduction flake	Brush Creek chert	1
3769.00	99	217	I-2	214.82	214.62	Late stage reduction flake	Brush Creek chert	1
3769.00	99	217	I-2	214.82	214.62	Late stage reduction flake	Uniontown chert	1
3769.00	99	217	I-2	214.82	214.62	Middle stage reduction flake	Onondaga chert	1
3769.00	99	217	I-2	214.82	214.62	Middle stage reduction flake	Onondaga chert	1
3770.00	99	218	I-1	214.85	214.75	Fire-cracked rock	Sandstone	7
3770.00	99	218	I-1	214.85	214.75	Flake Fragment	Onondaga chert	1
3770.00	99	218	I-1	214.85	214.75	Flake Fragment	Brush Creek chert	1
3770.00	99	218	I-1	214.85	214.75	Flake Fragment	Brush Creek chert	1
3770.00	99	218	I-1	214.85	214.75	Flake Fragment	Onondaga chert	1
3770.00	99	218	I-1	214.85	214.75	Flake Fragment	Onondaga chert	2
3770.00	99	218	I-1	214.85	214.75	Middle stage reduction flake	Onondaga chert	1
3770.00	99	218	I-1	214.85	214.75	Middle stage reduction flake	Onondaga chert	1
3770.00	99	218	I-1	214.85	214.75	Late stage reduction flake	Brush Creek chert	4
3770.00	99	218	I-1	214.85	214.75	Middle stage reduction flake	Onondaga chert	1
3770.00	99	218	I-1	214.85	214.75	Early stage reduction flake	Onondaga chert	1
3770.00	99	218	I-1	214.85	214.75	Early stage reduction flake	Onondaga chert	1
3770.00	99	218	I-1	214.85	214.75	Flake Fragment	Brush Creek chert	1
3770.00	99	218	I-1	214.85	214.75	Flake Fragment	Brush Creek chert	1
3770.00	99	218	I-1	214.85	214.75	Flake Fragment	Brush Creek chert	1
3770.00	99	218	I-1	214.85	214.75	Flake Fragment	Brush Creek chert	1
3770.00	99	218	I-1	214.85	214.75	Flake Fragment	Onondaga chert	1
3771.00	99	218	I-2	214.75	214.64	Flake Fragment	Onondaga chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3771.00	99	218	I-2	214.75	214.64	Flake Fragment	Onondaga chert	1
3771.00	99	218	I-2	214.75	214.64	Flake Fragment	Onondaga chert	12
3771.00	99	218	I-2	214.75	214.64	Shatter	Onondaga chert	1
3771.00	99	218	I-2	214.75	214.64	Middle stage reduction flake	Onondaga chert	5
3771.00	99	218	I-2	214.75	214.64	Middle stage reduction flake	Brush Creek chert	4
3771.00	99	218	I-2	214.75	214.64	Middle stage reduction flake	Onondaga chert	1
3771.00	99	218	I-2	214.75	214.64	Late stage reduction flake	Onondaga chert	4
3771.00	99	218	I-2	214.75	214.64	Flake Fragment	Brush Creek chert	1
3771.00	99	218	I-2	214.75	214.64	Flake Fragment	Brush Creek chert	1
3771.00	99	218	I-2	214.75	214.64	Flake Fragment	Brush Creek chert	1
3771.00	99	218	I-2	214.75	214.64	Late stage reduction flake	Brush Creek chert	4
3771.00	99	218	I-2	214.75	214.64	Middle stage reduction flake	Onondaga chert	1
3771.00	99	218	I-2	214.75	214.64	Early stage reduction flake	Brush Creek chert	1
3771.00	99	218	I-2	214.75	214.64	Straight stem point	Brush Creek chert	1
3771.00	99	218	I-2	214.75	214.64	Middle stage reduction flake	Onondaga chert	1
3771.00	99	218	I-2	214.75	214.64	Fire-cracked rock	Sandstone	14
3771.00	99	218	I-2	214.75	214.64	Flake Fragment	Brush Creek chert	1
3772.00	99	219	I-1	214.82	214.71	Retouched flake	Brush Creek chert	1
3772.00	99	219	I-1	214.82	214.71	Middle stage reduction flake	Onondaga chert	1
3772.00	99	219	I-1	214.82	214.71	S-twist cordmarked, shell temper		1
3772.00	99	219	I-1	214.82	214.71	Flake Fragment	Onondaga chert	1
3772.00	99	219	I-1	214.82	214.71	Flake Fragment	Onondaga chert	10
3772.00	99	219	I-1	214.82	214.71	Middle stage reduction flake	Brush Creek chert	3
3772.00	99	219	I-1	214.82	214.71	Middle stage reduction flake	Onondaga chert	1
3772.00	99	219	I-1	214.82	214.71	Fire-cracked rock	Sandstone	15
3772.00	99	219	I-1	214.82	214.71	Middle stage reduction flake	Onondaga chert	5

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3772.00	99	219	I-1	214.82	214.71	Flake Fragment	Brush Creek chert	1
3772.00	99	219	I-1	214.82	214.71	Flake Fragment	Brush Creek chert	4
3772.00	99	219	I-1	214.82	214.71	Shatter	Brush Creek chert	1
3772.00	99	219	I-1	214.82	214.71	Late stage reduction flake	Brush Creek chert	2
3772.00	99	219	I-1	214.82	214.71	Late stage reduction flake	Onondaga chert	4
3773.00	99	219	I-2	214.72	214.62	Middle stage reduction flake	Brush Creek chert	1
3773.00	99	219	I-2	214.72	214.62	Middle stage reduction flake	Brush Creek chert	1
3773.00	99	219	I-2	214.72	214.62	Flake Fragment	Sandstone	1
3773.00	99	219	I-2	214.72	214.62	Flake Fragment	Sandstone	1
3773.00	99	219	I-2	214.72	214.62	Early stage reduction flake	Brush Creek chert	1
3773.00	99	219	I-2	214.72	214.62	Middle stage reduction flake	Brush Creek chert	4
3773.00	99	219	I-2	214.72	214.62	Early stage reduction flake	Onondaga chert	1
3773.00	99	219	I-2	214.72	214.62	Late stage reduction flake	Onondaga chert	3
3773.00	99	219	I-2	214.72	214.62	Middle stage reduction flake	Brush Creek chert	1
3773.00	99	219	I-2	214.72	214.62	Middle stage reduction flake	Brush Creek chert	1
3773.00	99	219	I-2	214.72	214.62	Flake Fragment	Onondaga chert	1
3773.00	99	219	I-2	214.72	214.62	Middle stage reduction flake	Onondaga chert	1
3773.00	99	219	I-2	214.72	214.62	Flake Fragment	Onondaga chert	1
3773.00	99	219	I-2	214.72	214.62	Middle stage reduction flake	Onondaga chert	7
3773.00	99	219	I-2	214.72	214.62	Flake Fragment	Onondaga chert	1
3773.00	99	219	I-2	214.72	214.62	Flake Fragment	Onondaga chert	1
3773.00	99	219	I-2	214.72	214.62	Early stage reduction flake	Onondaga chert	1
3773.00	99	219	I-2	214.72	214.62	Flake Fragment	Onondaga chert	1
3773.00	99	219	I-2	214.72	214.62	Flake Fragment	Onondaga chert	9
3773.00	99	219	I-2	214.72	214.62	Late stage reduction flake	Brush Creek chert	1
3773.00	99	219	I-2	214.72	214.62	Flake Fragment	Brush Creek chert	1
3773.00	99	219	I-2	214.72	214.62	Flake Fragment	Brush Creek chert	8

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3773.00	99	219	I-2	214.72	214.62	Flake Fragment	Brush Creek chert	1
3773.00	99	219	I-2	214.72	214.62	Flake Fragment	Brush Creek chert	1
3773.00	99	219	I-2	214.72	214.62	Fire-cracked rock	Sandstone	32
3774.00	99	219	I-3	214.59	214.56	Flake Fragment	Brush Creek chert	1
3774.00	99	219	I-3	214.59	214.56	Late stage reduction flake	Onondaga chert	1
3774.00	99	219	I-3	214.59	214.56	Middle stage reduction flake	Brush Creek chert	1
3774.00	99	219	I-3	214.59	214.56	Flake Fragment	Upper Mercer chert	1
3774.00	99	219	I-3	214.59	214.56	Middle stage reduction flake	Onondaga chert	2
3774.00	99	219	I-3	214.59	214.56	Middle stage reduction flake	Brush Creek chert	1
3774.00	99	219	I-3	214.59	214.56	Middle stage reduction flake	Brush Creek chert	1
3774.00	99	219	I-3	214.59	214.56	Flake Fragment	Onondaga chert	1
3774.00	99	219	I-3	214.59	214.56	Late stage reduction flake	Brush Creek chert	1
3774.00	99	219	I-3	214.59	214.56	Core bipolar	Uniontown chert	1
3774.00	99	219	I-3	214.59	214.56	Flake Fragment	Onondaga chert	1
3774.00	99	219	I-3	214.59	214.56	Flake Fragment	Other raw material	1
3774.00	99	219	I-3	214.59	214.56	Flake Fragment	Brush Creek chert	1
3774.00	99	219	I-3	214.59	214.56	Fire-cracked rock	Sandstone	6
3774.00	99	219	I-3	214.59	214.56	Flake Fragment	Onondaga chert	1
3774.00	99	219	I-3	214.59	214.56	Late stage reduction flake	Brush Creek chert	1
3775.00	99	220	I-3	214.62	214.49	Late stage reduction flake	Uniontown chert	1
3776.00	99	220	I-3	214.62	214.49	Flake Fragment	Quartzite	1
3776.00	99	220	I-3	214.62	214.49	Middle stage reduction flake	Brush Creek chert	1
3776.00	99	220	I-3	214.62	214.49	Middle stage reduction flake	Onondaga chert	8
3776.00	99	220	I-3	214.62	214.49	Late stage reduction flake	Onondaga chert	1
3776.00	99	220	I-3	214.62	214.49	Fire-cracked rock	Sandstone	8
3776.00	99	220	I-3	214.62	214.49	Late stage reduction flake	Chalcedony	1
3776.00	99	220	I-3	214.62	214.49	Late stage reduction flake	Brush Creek chert	5

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3776.00	99	220	I-3	214.62	214.49	Late stage reduction flake	Brush Creek chert	1
3776.00	99	220	I-3	214.62	214.49	Late stage reduction flake	Uniontown chert	2
3776.00	99	220	I-3	214.62	214.49	Pot lid	Brush Creek chert	1
3776.00	99	220	I-3	214.62	214.49	Flake Fragment	Onondaga chert	1
3776.00	99	220	I-3	214.62	214.49	Flake Fragment	Brush Creek chert	5
3776.00	99	220	I-3	214.62	214.49	Flake Fragment	Sandstone	1
3776.00	99	220	I-3	214.62	214.49	Flake Fragment	Siltstone	1
3776.00	99	220	I-3	214.62	214.49	Utilized flake	Brush Creek chert	1
3776.00	99	220	I-3	214.62	214.49	Late stage reduction flake	Onondaga chert	8
3776.00	99	220	I-3	214.62	214.49	Flake Fragment	Onondaga chert	1
3776.00	99	220	I-3	214.62	214.49	Flake Fragment	Onondaga chert	1
3776.00	99	220	I-3	214.62	214.49	Flake Fragment	Onondaga chert	1
3776.00	99	220	I-3	214.62	214.49	Flake Fragment	Onondaga chert	1
3776.00	99	220	I-3	214.62	214.49	Flake Fragment	Onondaga chert	1
3776.00	99	220	I-3	214.62	214.49	Flake Fragment	Onondaga chert	7
3776.00	99	220	I-3	214.62	214.49	Middle stage reduction flake	Brush Creek chert	9
3776.00	99	220	I-3	214.62	214.49	Flake Fragment	Brush Creek chert	1
3776.00	99	220	I-3	214.62	214.49	Flake Fragment	Onondaga chert	1
3776.00	99	220	I-3	214.62	214.49	Early stage reduction flake	Onondaga chert	1
3776.00	99	220	I-3	214.62	214.49	Middle stage reduction flake	Onondaga chert	1
3776.00	99	220	I-3	214.62	214.49	Middle stage reduction flake	Onondaga chert	1
3776.00	99	220	I-3	214.62	214.49	Middle stage reduction flake	Onondaga chert	1
3776.00	99	220	I-3	214.62	214.49	Middle stage reduction flake	Onondaga chert	1
3776.00	99	220	I-3	214.62	214.49	Flake Fragment	Uniontown chert	1
3776.00	99	220	I-3	214.62	214.49	Middle stage reduction flake	Uniontown chert	1
3776.00	99	220	I-3	214.62	214.49	Flake Fragment	Brush Creek chert	1
3777.00	99	221	I-3	214.66	214.49	Raw material	Vanport chert	1
3777.00	99	221	I-3	214.66	214.49	Shatter	Brush Creek chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3777.00	99	221	I-3	214.66	214.49	Flake Fragment	Brush Creek chert	1
3777.00	99	221	I-3	214.66	214.49	Flake Fragment	Onondaga chert	1
3777.00	99	221	I-3	214.66	214.49	Fire-cracked rock	Sandstone	7
3777.00	99	221	I-3	214.66	214.49	Flake Fragment	Onondaga chert	1
3777.00	99	221	I-3	214.66	214.49	Flake Fragment	Onondaga chert	1
3777.00	99	221	I-3	214.66	214.49	Flake Fragment	Onondaga chert	1
3777.00	99	221	I-3	214.66	214.49	Middle stage reduction flake	Uniontown chert	1
3777.00	99	221	I-3	214.66	214.49	Early stage reduction flake	Uniontown chert	1
3777.00	99	221	I-3	214.66	214.49	Late stage reduction flake	Uniontown chert	2
3777.00	99	221	I-3	214.66	214.49	Flake Fragment	Sandstone	1
3777.00	99	221	I-3	214.66	214.49	Flake Fragment	Brush Creek chert	8
3777.00	99	221	I-3	214.66	214.49	Early stage reduction flake	Onondaga chert	1
3777.00	99	221	I-3	214.66	214.49	Flake Fragment	Brush Creek chert	1
3777.00	99	221	I-3	214.66	214.49	Flake Fragment	Brush Creek chert	1
3777.00	99	221	I-3	214.66	214.49	Flake Fragment	Onondaga chert	1
3777.00	99	221	I-3	214.66	214.49	Flake Fragment	Onondaga chert	1
3777.00	99	221	I-3	214.66	214.49	Flake Fragment	Onondaga chert	1
3777.00	99	221	I-3	214.66	214.49	Flake Fragment	Brush Creek chert	1
3777.00	99	221	I-3	214.66	214.49	Flake Fragment	Onondaga chert	1
3777.00	99	221	I-3	214.66	214.49	Shatter	Onondaga chert	1
3777.00	99	221	I-3	214.66	214.49	Shatter	Onondaga chert	1
3777.00	99	221	I-3	214.66	214.49	Flake Fragment	Uniontown chert	3
3777.00	99	221	I-3	214.66	214.49	Shatter	Sandstone	1
3777.00	99	221	I-3	214.66	214.49	Middle stage reduction flake	Brush Creek chert	5
3777.00	99	221	I-3	214.66	214.49	Middle stage reduction flake	Brush Creek chert	1
3777.00	99	221	I-3	214.66	214.49	Middle stage reduction flake	Brush Creek chert	1
3777.00	99	221	I-3	214.66	214.49	Middle stage reduction flake	Brush Creek chert	1
3777.00	99	221	I-3	214.66	214.49	Middle stage reduction flake	Brush Creek chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3777.00	99	221	I-3	214.66	214.49	Late stage reduction flake	Brush Creek chert	14
3777.00	99	221	I-3	214.66	214.49	Late stage reduction flake	Brush Creek chert	1
3777.00	99	221	I-3	214.66	214.49	Flake Fragment	Onondaga chert	22
3777.00	99	221	I-3	214.66	214.49	Miscellaneous wood debris		1
3777.00	99	221	I-3	214.66	214.49	Early stage reduction flake	Onondaga chert	1
3777.00	99	221	I-3	214.66	214.49	Flake Fragment	Brush Creek chert	1
3777.00	99	221	I-3	214.66	214.49	Flake Fragment	Onondaga chert	1
3777.00	99	221	I-3	214.66	214.49	Early stage reduction flake	Brush Creek chert	1
3777.00	99	221	I-3	214.66	214.49	Late stage reduction flake	Onondaga chert	15
3777.00	99	221	I-3	214.66	214.49	Middle stage reduction flake	Onondaga chert	11
3777.00	99	221	I-3	214.66	214.49	Middle stage reduction flake	Onondaga chert	1
3777.00	99	221	I-3	214.66	214.49	Middle stage reduction flake	Onondaga chert	1
3777.00	99	221	I-3	214.66	214.49	Middle stage reduction flake	Brush Creek chert	1
3777.00	99	221	I-3	214.66	214.49	Early stage reduction flake	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Late stage reduction flake	Onondaga chert	1
3778.00	99	222	I-3	214.70	214.50	Fire-cracked rock	Sandstone	13
3778.00	99	222	I-3	214.70	214.50	Middle stage reduction flake	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Late stage reduction flake	Onondaga chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Late stage reduction flake	Brush Creek chert	15
3778.00	99	222	I-3	214.70	214.50	Late stage reduction flake	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Late stage reduction flake	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Late stage reduction flake	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Early stage reduction flake	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Middle stage reduction flake	Brush Creek chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Middle stage reduction flake	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Middle stage reduction flake	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Middle stage reduction flake	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Middle stage reduction flake	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Middle stage reduction flake	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Early stage reduction flake	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Early stage reduction flake	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Early stage reduction flake	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Middle stage reduction flake	Brush Creek chert	11
3778.00	99	222	I-3	214.70	214.50	Middle stage reduction flake	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Late stage reduction flake	Chalcedony	2
3778.00	99	222	I-3	214.70	214.50	Late stage reduction flake	Monongahela chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Monongahela chert	2
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Monongahela chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Uniontown chert	2
3778.00	99	222	I-3	214.70	214.50	Late stage reduction flake	Uniontown chert	2
3778.00	99	222	I-3	214.70	214.50	Middle stage reduction flake	Uniontown chert	1
3778.00	99	222	I-3	214.70	214.50	Early stage reduction flake	Uniontown chert	1
3778.00	99	222	I-3	214.70	214.50	Middle stage reduction flake	Vanport chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Middle stage reduction flake	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Middle stage reduction flake	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Late stage reduction flake	Brush Creek chert	2
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Brush Creek chert	5

2002 Field Season

Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Brush Creek chert	11
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Middle stage reduction flake	Brush Creek chert	2
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Onondaga chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Onondaga chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Onondaga chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Onondaga chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Onondaga chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Onondaga chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Onondaga chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Onondaga chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Onondaga chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Onondaga chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Onondaga chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Onondaga chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Onondaga chert	1
3778.00	99	222	I-3	214.70	214.50	Slag		2
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Onondaga chert	1
3778.00	99	222	I-3	214.70	214.50	Late stage reduction flake	Kanawha chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Siltstone	1
3778.00	99	222	I-3	214.70	214.50	Early stage reduction flake	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Utilized flake	Onondaga chert	1
3778.00	99	222	I-3	214.70	214.50	Flake Fragment	Brush Creek chert	1
3778.00	99	222	I-3	214.70	214.50	Utilized flake	Onondaga chert	1

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
6104.00	95	220	I-2	214.76	214.66	Slag		1
6104.00	95	220	I-2	214.76	214.66	Flake Fragment	Onondaga chert	1
6104.00	95	220	I-2	214.76	214.66	Flake Fragment	Brush Creek chert	1
6104.00	95	220	I-2	214.76	214.66	Late stage reduction flake	Upper Mercer chert	1
6104.00	95	220	I-2	214.76	214.66	Middle stage reduction flake	Brush Creek chert	1
6104.00	95	220	I-2	214.76	214.66	Late stage reduction flake	Uniontown chert	2
6104.00	95	220	I-2	214.76	214.66	Middle stage reduction flake	Uniontown chert	1
6104.00	95	220	I-2	214.76	214.66	Flake Fragment	Uniontown chert	1
6104.00	95	220	I-2	214.76	214.66	Flake Fragment	Brush Creek chert	1
6104.00	95	220	I-2	214.76	214.66	Late stage reduction flake	Brush Creek chert	3
6104.00	95	220	I-2	214.76	214.66	Middle stage reduction flake	Onondaga chert	6
6104.00	95	220	I-2	214.76	214.66	Flake Fragment	Onondaga chert	9
6104.00	95	220	I-2	214.76	214.66	Middle stage reduction flake	Brush Creek chert	2
6104.00	95	220	I-2	214.76	214.66	Late stage reduction flake	Brush Creek chert	1
6104.00	95	220	I-2	214.76	214.66	Flake Fragment	Uniontown chert	3
6104.00	95	220	I-2	214.76	214.66	Core bipolar	Brush Creek chert	1
6104.00	95	220	I-2	214.76	214.66	Fire-cracked rock	Sandstone	5
6104.00	95	220	I-2	214.76	214.66	Middle stage reduction flake	Brush Creek chert	1
6104.00	95	220	I-2	214.76	214.66	Flake Fragment	Onondaga chert	1
6104.00	95	220	I-2	214.76	214.66	Flake Fragment	Onondaga chert	1
6104.00	95	220	I-2	214.76	214.66	Flake Fragment	Onondaga chert	1
6104.00	95	220	I-2	214.76	214.66	Flake Fragment	Onondaga chert	1
6104.00	95	220	I-2	214.76	214.66	Late stage reduction flake	Onondaga chert	1
6104.00	95	220	I-2	214.76	214.66	Late stage reduction flake	Onondaga chert	1
6104.00	95	220	I-2	214.76	214.66	Middle stage reduction flake	Onondaga chert	1
6104.00	95	220	I-2	214.76	214.66	Late stage reduction flake	Onondaga chert	9

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Cat No	North	East	Site Level	Top Elev	Bottom Elev	Artifact	Material	Quantity
6104.00	95	220	I-2	214.76	214.66	Middle stage reduction flake	Onondaga chert	1
6104.00	95	220	I-2	214.76	214.66	Middle stage reduction flake	Onondaga chert	1
6104.00	95	220	I-2	214.76	214.66	Middle stage reduction flake	Onondaga chert	1
6104.00	95	220	I-2	214.76	214.66	Middle stage reduction flake	Onondaga chert	1
6104.00	95	220	I-2	214.76	214.66	Middle stage reduction flake	Onondaga chert	1
6104.00	95	220	I-2	214.76	214.66	Middle stage reduction flake	Onondaga chert	1
6104.00	95	220	I-2	214.76	214.66	Middle stage reduction flake	Onondaga chert	1
6104.00	95	220	I-2	214.76	214.66	Flake Fragment	Onondaga chert	1

APPENDIX 9C: FIGURES

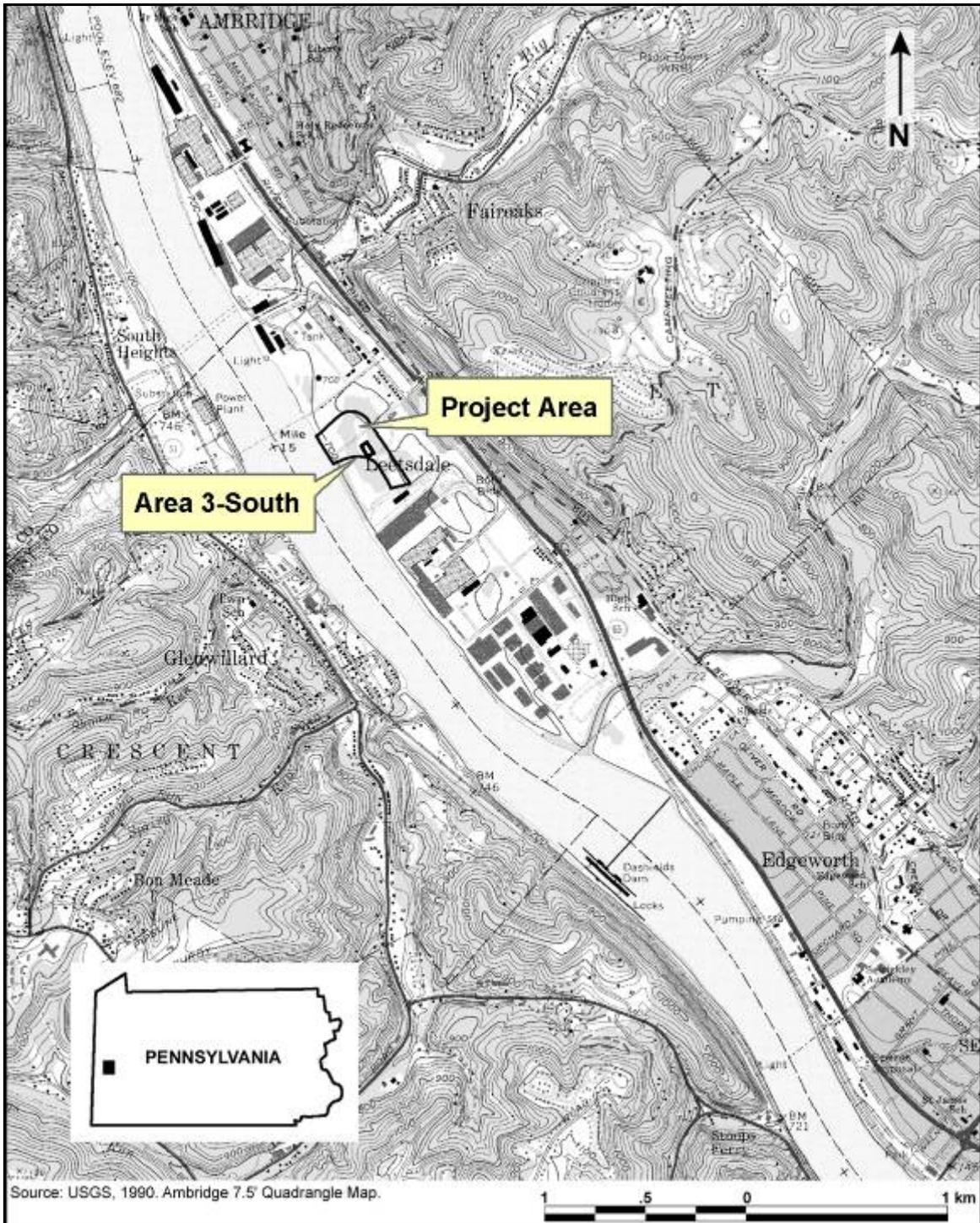


Figure 9.1. Site location.



Figure 9.2. Project and work area locations.

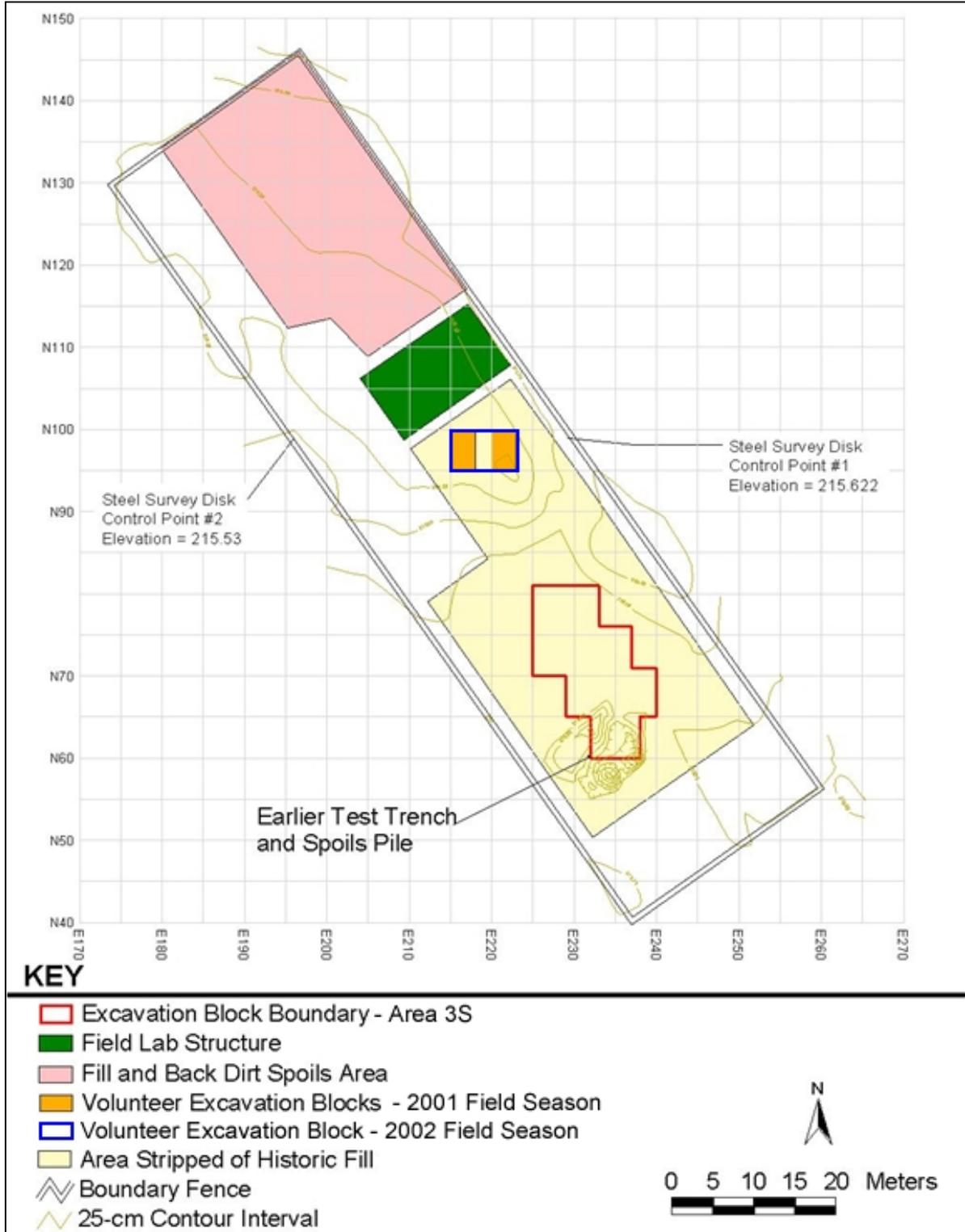


Figure 9.3. Area 3 details including volunteer block.

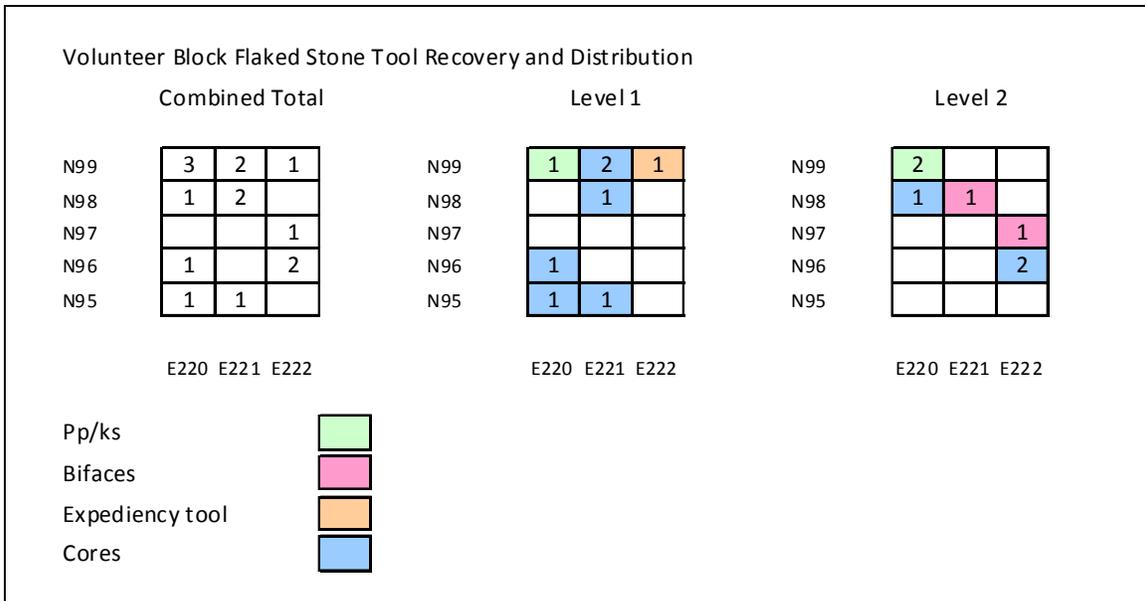


Figure 9.4. Volunteer block flaked stone tool recovery and distribution.

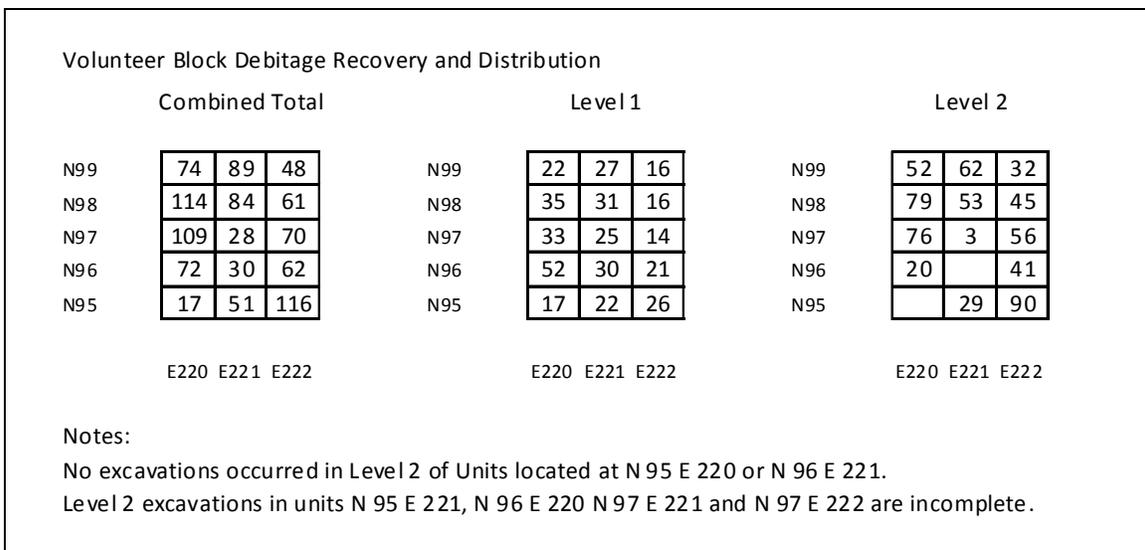


Figure 9.5. Volunteer blockdebitage recovery and distribution.

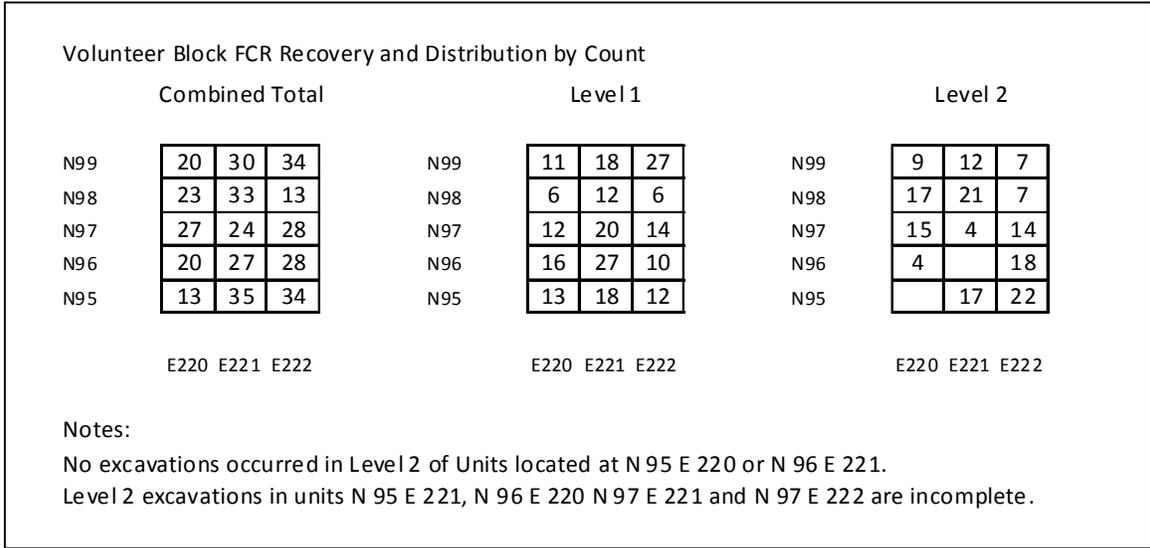


Figure 9.6. Volunteer block FCR recovery and distribution by count.

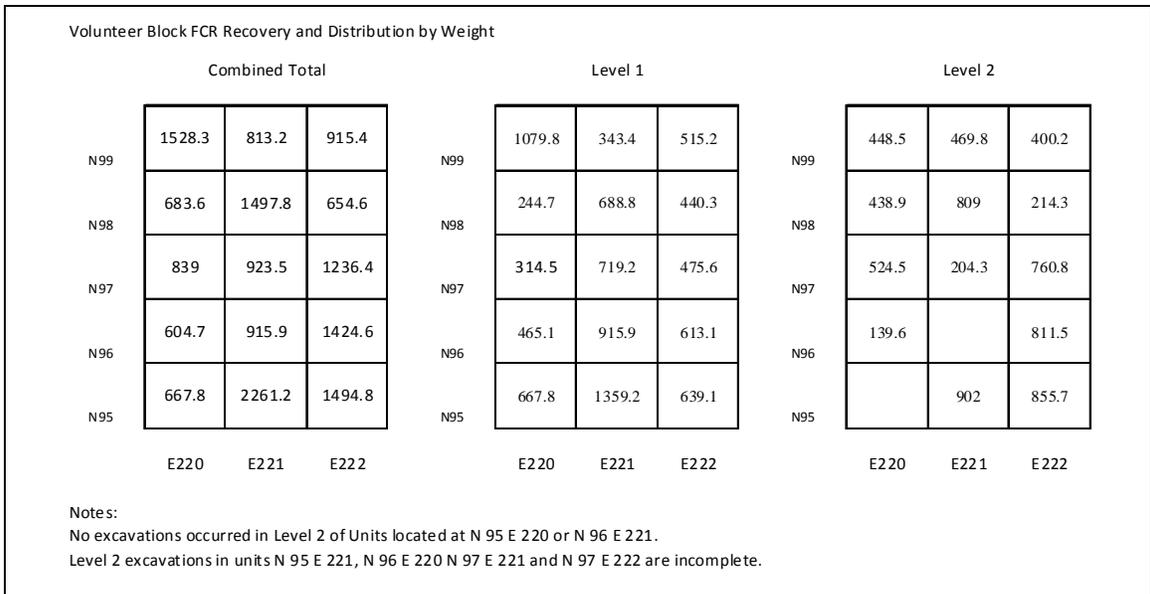


Figure 9.7. Volunteer block FCR recovery and distribution by weight (g).

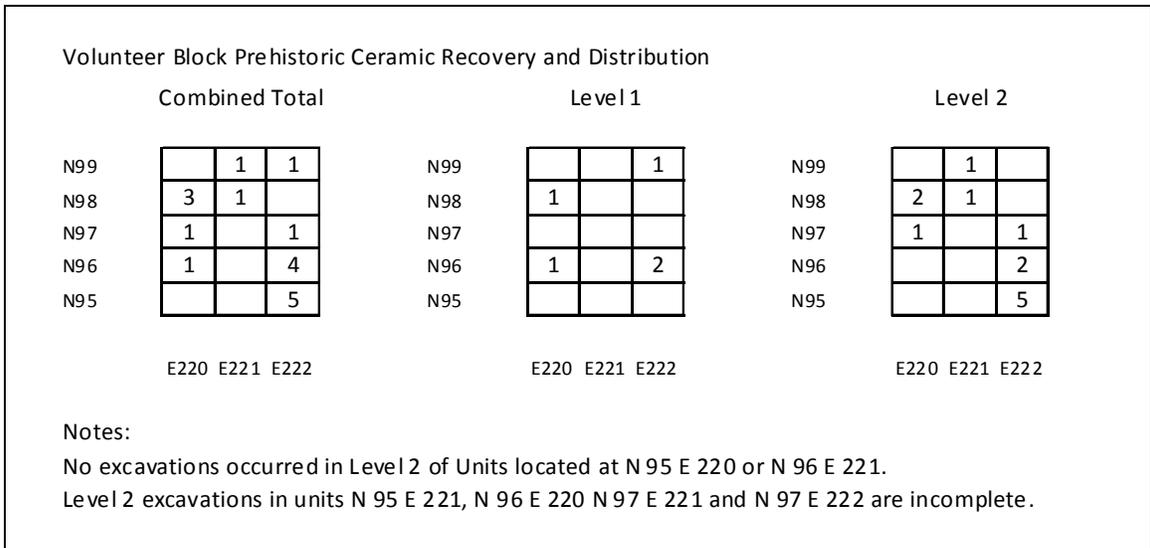
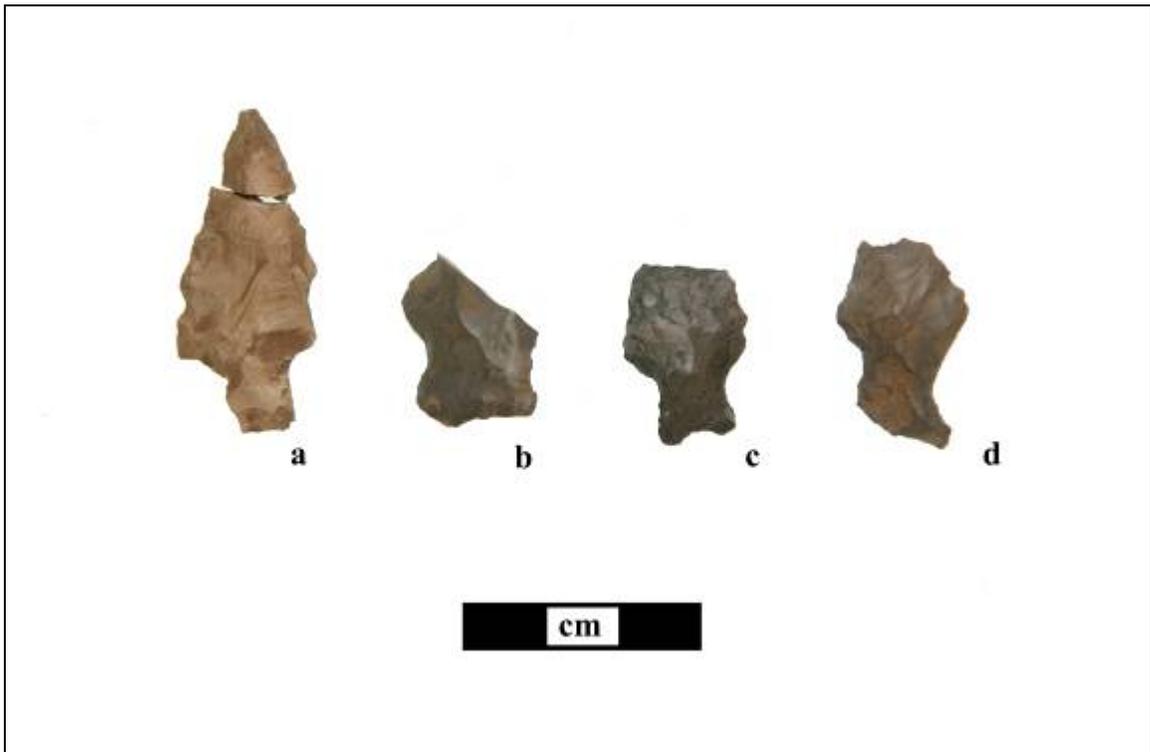
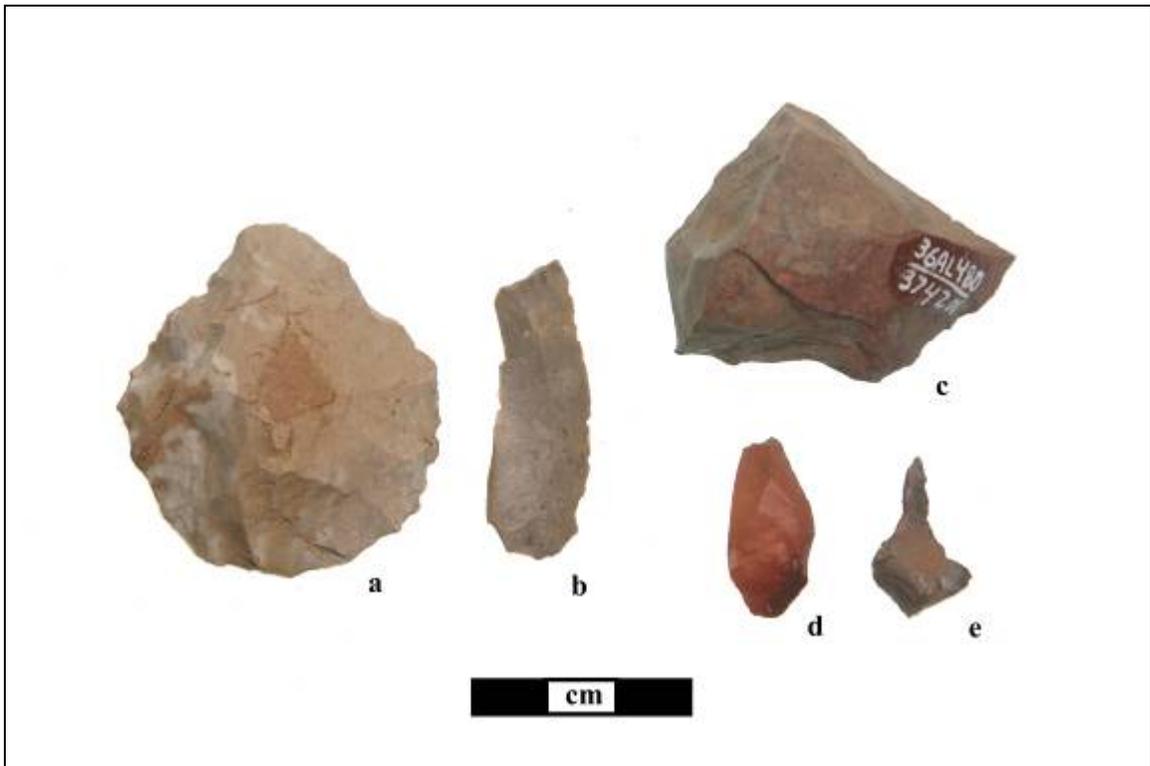


Figure 9.8. Volunteer block prehistoric ceramic recovery and distribution.



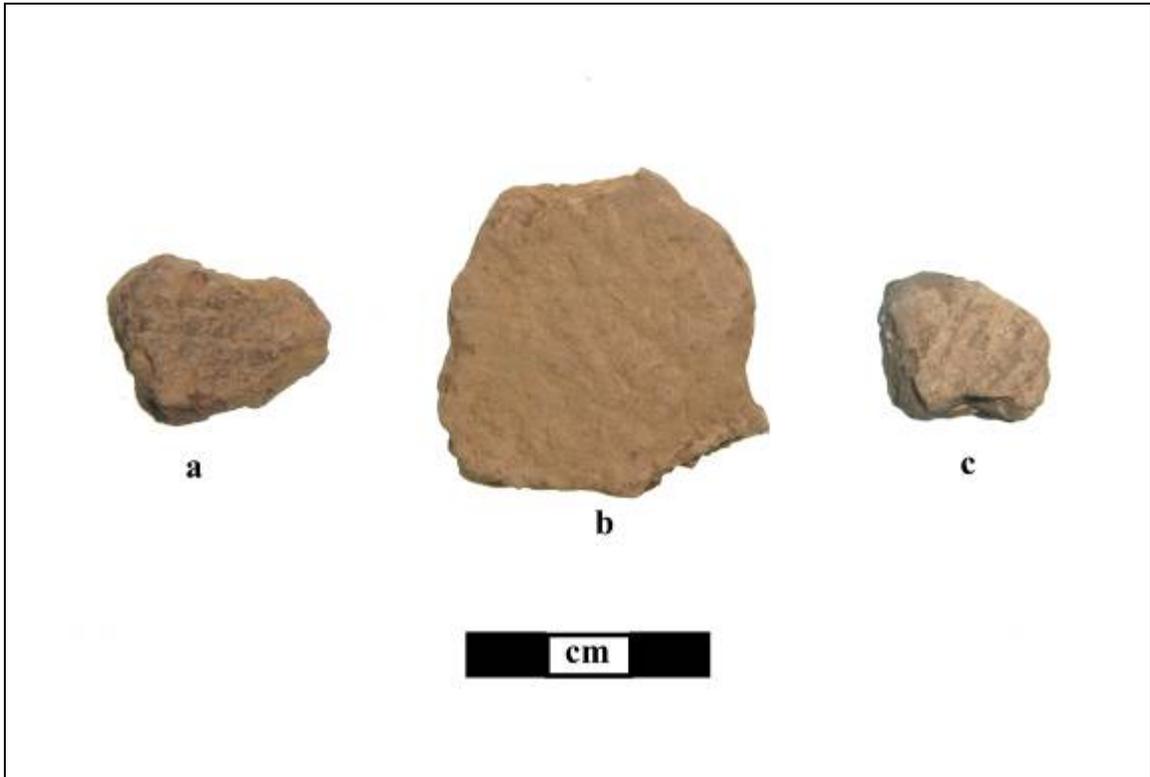
a: Straight stemmed point, Brush Creek chert (Top: Cat no. 3756.01, N98E217, Level I-2, Bottom: Cat no. 3771.01, N99E218, Level I-2); b: Expanding stemmed point, Onondaga chert (Cat no. 3760.02, N98E219, Level I-2); c: Bifurcate-base point, Onondaga chert (Cat. no. 3739.01, N96E222, Level I-3); d: Expanding stemmed point, Onondaga chert (Cat no. 3733.02, N96E218, Level I-2)

Figure 9.9. Representative points from volunteer excavations.



a: Scraper, Brush Creek Chert (Cat no. 3729, N96E215, Level I-1) b:
Retouched flake, Brush Creek chert (Cat no. 3746, N97E219, Level I-3)
c: Utilized core, Onondaga chert (Cat no. 3747, N97E220, Level I-3); d:
Retouched flake, Brush Creek chert (Cat no. 3772, N99E219, Level I-1);
e: Perforator, Onondaga chert (Cat. 3751, N97E222, Level I-3)

Figure 9.10. Representative tools from volunteer excavations.



a: Body sherd (Cat no. 3760, N98E219, Level I-2) ; b: Body sherd (Cat no. 3769, N99E217, Level I-2); c: Body sherd (Cat no. 3772, N99E219, Level I-1)

Figure 9.11. Ceramics with identifiable S-twist cordage.

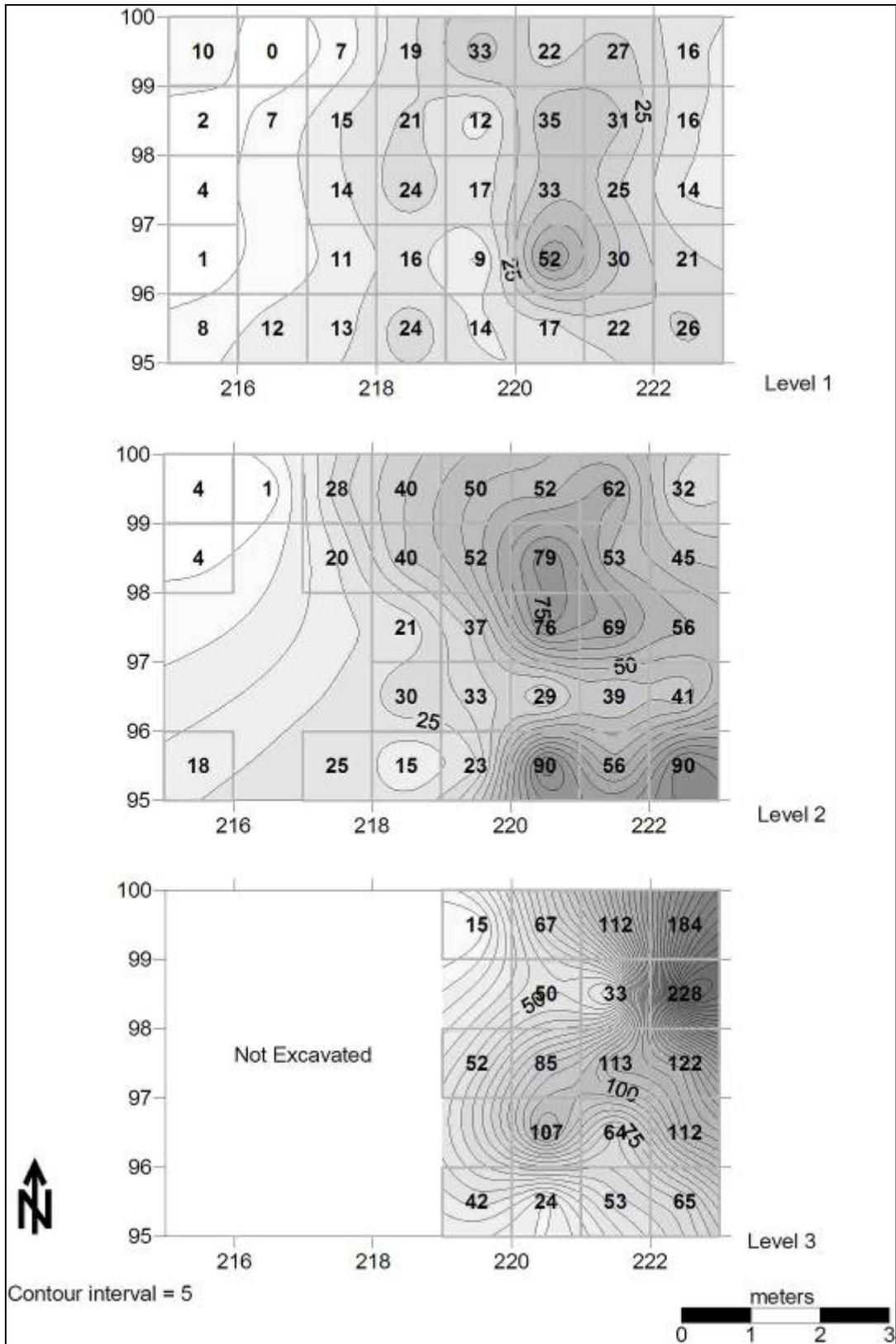


Figure 9.12. Distribution of debitage.

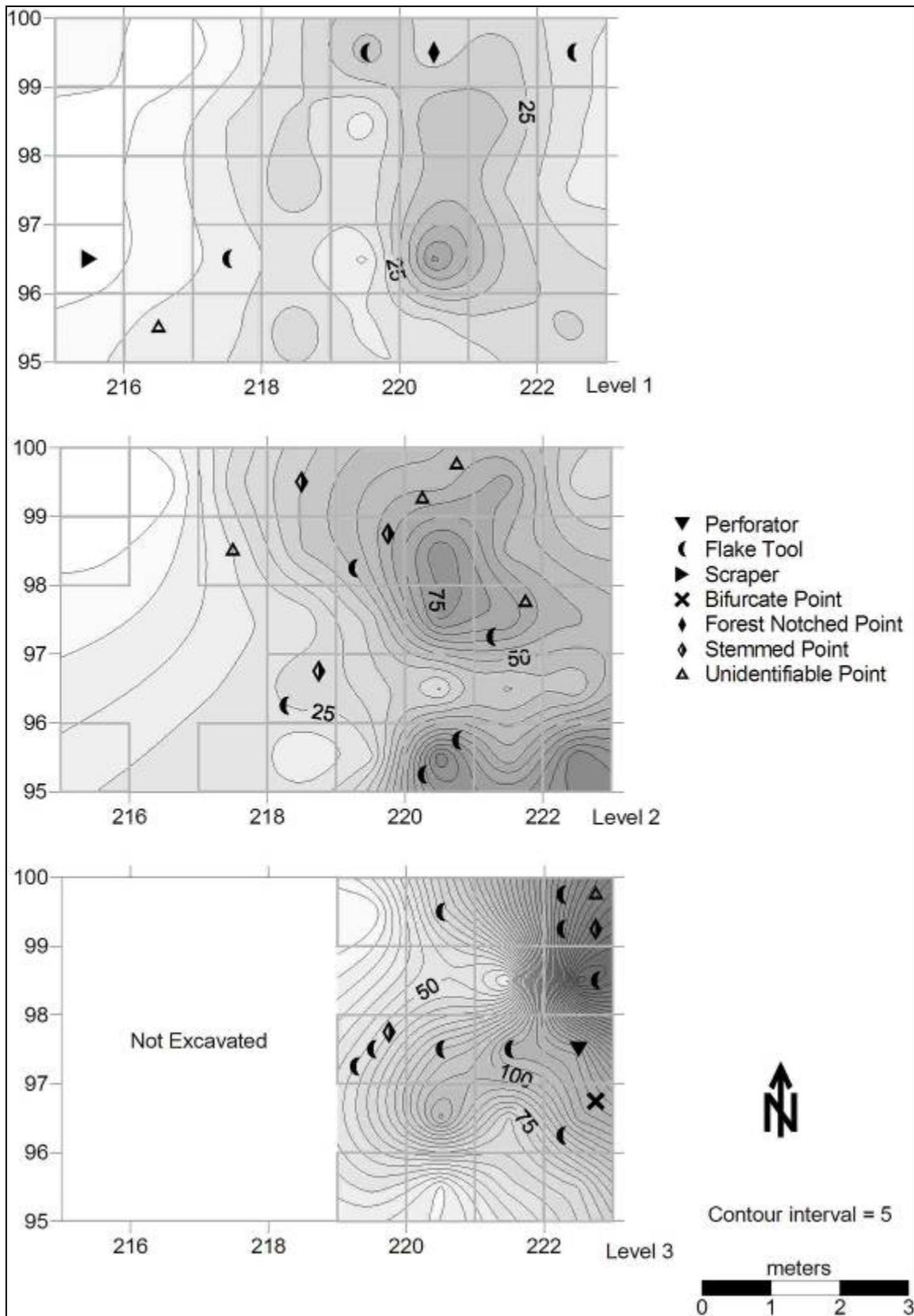


Figure 9.13. Distribution of tools (contours show debitage distribution).

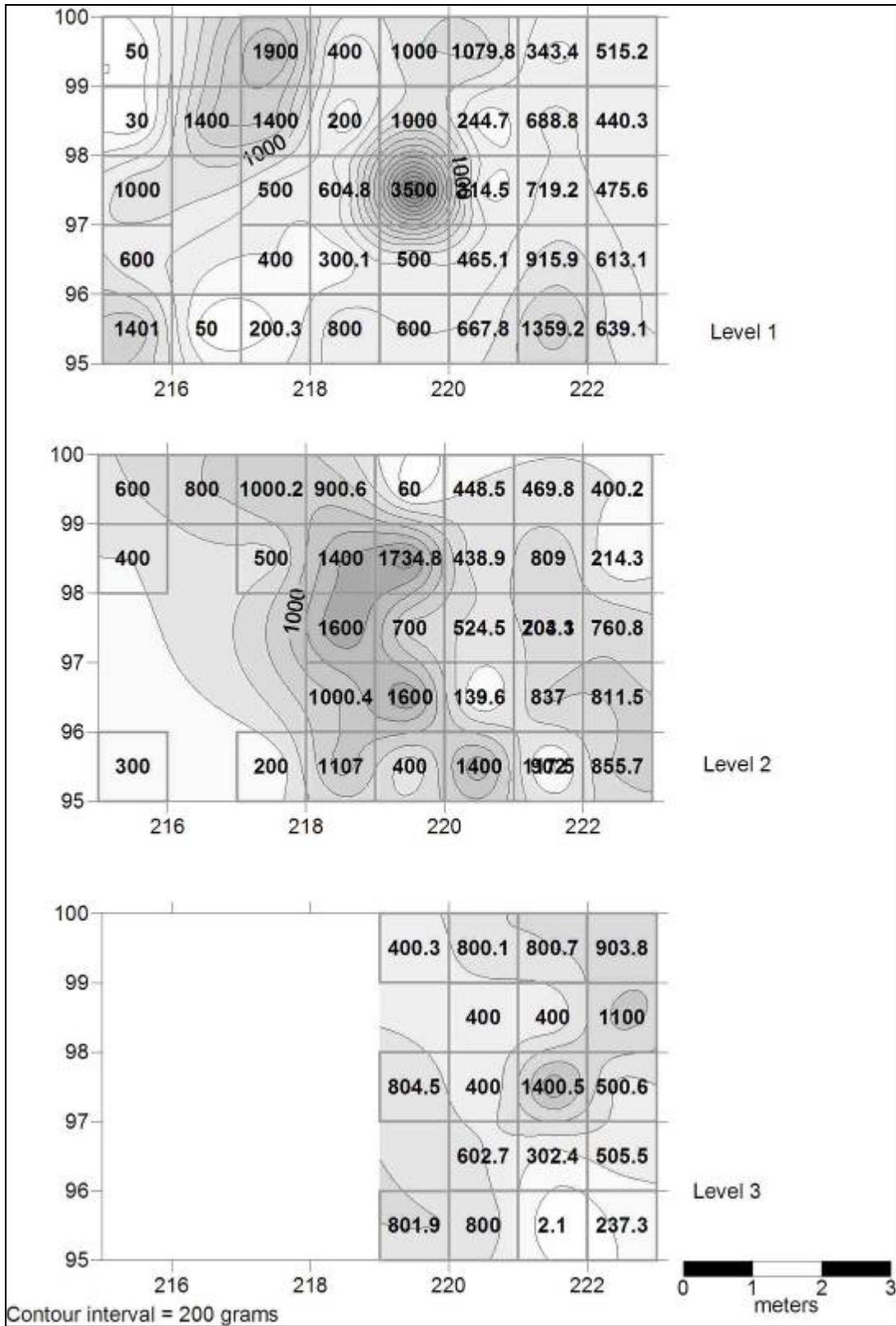


Figure 9.14. Distribution of FCR by weight.