INTENSIVE ARCHAEOLOGICAL SURVEY AND EVALUATION OF THE PREFERRED ALTERNATIVE FOR COMPLETE 540 TRIANGLE EXPRESSWAY SOUTHEAST EXTENSION, WAKE AND JOHNSTON COUNTIES, NORTH CAROLINA

State Transportation Improvement Program (STIP) Project Nos. R-2721, R-2828, and R-2829 State Project Nos. 6.401078, 6.401079, and 6.401080 Federal Aid Project Nos. STP-0540(19), STP-0540(20), and STP-0540(21) WBS Nos. 37673.1.TA2, 35516.1.TA2, and 35517.1.TA1 ER-98-0457

> TECHNICAL REPORT VOLUME I



DIVISION OF HIGHWAYS ENVIRONMENTAL ANALYSIS UNIT ARCHAEOLOGY GROUP

SEPTEMBER 2017

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TECHNICAL REPORT: VOLUME I

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MANAGEMENT SUMMARY

Introduction

In 2017 Commonwealth Heritage Group, Inc. (Commonwealth), completed fieldwork, analysis, and reporting for the North Carolina Department of Transportation's (NCDOT's) archaeological survey and evaluation of the Preferred Alternative for the Complete 540 Triangle Expressway Southeast Extension (NC 540). The Complete 540 Triangle Expressway Southeast Extension is designated as three projects in the NCDOT 2016-2025 State Transportation Improvement Program (STIP): R-2721, R-2828, and R-2829. The project is federally funded. Together, the three STIP projects will combine to complete the 540 Outer Loop around the Raleigh metropolitan area. STIP R-2721 extends from NC 540's current terminus at the NC 55 Bypass in Apex to the proposed new roadway's intersection with US 401 (Fayetteville Road), STIP R-2828 extends from there to the proposed intersection with I-40, and STIP R-2829 continues to terminate at the intersection with the US 64/264 Bypass.

Commonwealth's technical proposal for the project, dated June 15, 2016, was based upon NCDOT's Request for Proposal and Scope of Work (SOW) outlining proposed measures to carry out compliance with Section 106 of the National Historic Preservation Act of 1966 and the Advisory Council on Historic Preservation's regulations for compliance with Section 106, codified as 36 CFR Part 800. NCDOT's SOW was developed in consultation with the State Historic Preservation Office (HPO). Commonwealth was contracted by H.W. Lochner, Inc., to conduct the survey and evaluation based on the NCDOT SOW, which is presented in Appendix A. The investigations were conducted according to the Secretary of the Interior's *Standards and Guidelines for Historic Preservation Projects* (Federal Register, Vol. 48, No. 190, September 1983, P. 44716-44742, et seq.), and the resulting report meets the relevant guidelines issued by the North Carolina Office of State Archaeology (OSA) of the HPO.

The new roadway will consist of six lanes, with three 12-foot lanes in each direction of travel, separated by a 70-foot median, on new location. R-2721 is located entirely in Wake County while STIPs R-2828 and R-2829 are located mostly in Wake County with small portions in Johnston County. Proposed interchange locations include the NC 55 Bypass, Holly Springs Road, Bells Lake Road, US 401, Old Stage Road, NC 50, White Oak Road, I-40, US 70 Bypass, Old Baucom Road, Auburn Knightdale Road, Poole Road, and US 64/264 Bypass. For the archaeological investigation, the Area of Potential Effects (APE) corresponds to the overall study corridor for the three STIP projects, as generally described in the NCDOT SOW and specifically based upon a shapefile provided by the NCDOT project manager on June 8, 2016. The study corridor boundaries represent the maximum limits of potential ground-disturbing activity, and the APE is generally 1,000 ft in width along the alignments with wider areas for proposed interchanges. The total area for the APE involves 2,304.09 ha (5,693.52 acres), and the total length of the project is 60,285.19 m (197,786.07 ft/37.46 mi). Roughly, 42 percent of the APE project area is comprised of eroded soils based on mapping from the United States Department of Agriculture Natural Resources Conservation Service (UDSA/NRCS), with the percent ranging from 23 percent to 50 percent based on the specific STIP project.

Methods

To facilitate fieldwork logistics, Commonwealth divided the APE into 45 segments (A through K for R-2721, L through V for R-2828, and W through Y and AA through TT for R-2829), with the segments beginning at the western terminus near Apex. Segment breaks were developed using natural and manmade features (roads and streams), and segment acreages vary depending on where logical breaks could be developed, with acreages ranging from approximately 39 acres to over 300 acres depending on the presence of larger interchange footprints. Individual management summaries were submitted for each STIP project at the conclusion of fieldwork; this report presents the combined survey and evaluation results for the Complete 540 project with discussions by segment to convey field conditions at a more specific level. This report includes natural and cultural contexts for the project, the project methods, and specific discussions for all segments with discussions and recommendations for all documented archaeological resources in the APE. Appendix B is a complete listing of all recovered artifacts, and Appendix C contains representative shovel tests profiles to supplement information on site stratigraphy presented in the site descriptions.

The purpose of the archaeological fieldwork and post-field analyses was to collect data on sites to support recommendations on eligibility for the National Register of Historic Places (NRHP). The archaeological survey and evaluation work was conducted between December 1, 2016 and March 3, 2017, inclusive of revisits to key sites for follow-up investigations. The APE was given full consideration based on the methodology set forth by the NCDOT SOW and Commonwealth's technical proposal. In consultation with OSA, NCDOT determined that the entire APE, except for areas that have been previously surveyed, would be subjected to a pedestrian (visual) reconnaissance to inspect for above-ground surface features and artifacts including resources such as structural remains (chimneys, wells, footings), cemeteries (markers, fences, depressions, periwinkle and other domestic evergreens), and artifact scatters where permitted by visibility. The methodology specified that for archaeological sites identified during visual survey of noneroded or eroded soils, or if otherwise warranted, subsurface testing would be completed to better determine site function, size, stratigraphy, cultural affiliation, and NRHP eligibility.

NCDOT's SOW indicated that only undisturbed locations are anticipated to contain intact archaeological sites with good cultural and stratigraphic integrity. They therefore determined that shovel testing would be unnecessary as a discovery method in areas of modern disturbance and eroded soils as mapped in modern soil surveys. The SOW work also stated that pedestrian or visual reconnaissance would be ample for identifying sites in areas of erosion and disturbance. Per the SOW, the visual portion of the survey through eroded sections utilized between 5 and 11 transects to cover the width of the APE. Intensive survey by shovel testing or appropriate pedestrian survey methods was conducted in areas not mapped as eroded and not appearing obviously disturbed, steeply sloped, or low and wet. The only variation from this agreed-upon methodology was that Commonwealth, at the discretion of its field directors, conducted occasional judgmental intensive survey in areas that were mapped as eroded if an isolated, seemingly high-potential landform was encountered (e.g., a ridge toe with mature trees suggesting that erosion might be more minimal than indicated by the soil survey).

Those areas that were previously mapped as eroded or visually confirmed to have extremely low site potential (low, wet, steeply sloped, or disturbed) were visually inspected for above-ground surface features and artifacts. This effort included walking these areas along transects at 30-m intervals. When archaeological sites were identified during the visual reconnaissance, subsurface testing was utilized as necessary to better determine site function, size, stratigraphy, cultural affiliation, and NRHP eligibility. In higher potential areas (intensive survey areas that were not mapped as eroded, not obviously disturbed, and not steeply sloped or low or wet) intensive pedestrian survey, supplemented by subsurface shovel testing as necessary, was conducted at approximately 10-m intervals, if surface visibility was greater than 50 percent.

Shovel testing at 30-m (100 ft) intervals, supplemented by judgmental testing, was used for intensive survey in areas with reduced ground surface visibility. Judgmental shovel tests were also occasionally placed in areas mapped as having eroded soils, if the landform or topography appeared to otherwise possess high potential for cultural materials, according to the field director's discretion. An example of such a situation would be a wooded ridge or ridge toe, near a stream and having mature vegetation that was suspected to be minimally eroded despite soil mapping indicating otherwise.

Per the NCDOT SOW, an archaeological site was defined as five or more artifacts within a 50-x-50-m or greater area. An isolated find was any locus where a single artifact up to a cluster of four precontact Native American or historic artifacts was recovered within a 50-x-50-m area. Site boundaries were based upon positive shovel test locations (two negative shovel test pits in a row during excavation of radial shovel tests), APE boundaries, the distribution of surface artifacts, topography, or any other natural barrier that would have prevented occupation. All sites and isolated finds were recorded, as encountered, with a temporary Commonwealth tracking number based on the internal project number (268), the segment letter, and a serial number (e.g., 268-A1). Permanent state site numbers were obtained from OSA at the conclusion of the fieldwork phase, after site boundaries were refined and/or merged as appropriate based on preliminary data processing. Artifacts recovered during site excavations were placed in bags labeled with the appropriate site provenience information. Digital photographs were taken and sketch maps were prepared to depict the boundaries, excavation strategies, and features associated with the site. Evaluation of selected archaeological sites identified by the survey necessitated the excavation of test units (generally none for small or deflated sites, isolated artifact finds, cemeteries, and disturbed sites).

Artifacts recovered from all identified archaeological sites and isolated finds were placed in bags or containers labeled by provenience unit, stratum, date, and other pertinent information. Accession numbers were assigned by OSA. An inventory of artifacts and samples was prepared for inclusion with these materials and in this report, and other appropriate documentation has been prepared for the curation package as per the instructions outlined in the *Archaeological Curation Standards and Guidelines* (Office of State Archaeology 1995).

North Carolina Archaeological Site Forms were completed for each archaeological site and isolated find recorded by the survey. A North Carolina Cemetery Survey Form was completed for each cemetery identified by the survey. All site and cemetery forms are filed at OSA.

Results

A total of 19.62 ha (48.49 acres) could not be visually inspected or surveyed due to lack of access (denial by landowner or presence of livestock). These were minimally documented through an informant interview, reconnaissance from the roadside, and remote images. Twentythree archaeological resources have been previously mapped within or partly within the APE for the survey corridor. These previously recorded sites include 31JT325 through 31JT328, 31WA4, 31WA287, 31WA493, 31WA663&663**, 31WA787, 31WA1186&1186**, 31WA1187, 31WA1335, 31WA1347 through 31WA1352, 31WA1368, 31WA1403, 31WA1853, 31WA1855, and 31WA1899. Fourteen of these previously recorded sites were previously recommended not eligible for the NRHP when first investigated. These sites include 31WA287, 31WA1335, 31WA1347, 31WA1348, 31WA1349, 31WA1350, 1WA1351&1351**, 31WA1352, 31WA1368, 31WA1899, 31JT325, 31JT326, 31JT327, and 31JT328. These 14 sites were not deliberately resurveyed during the current project survey. The boundary of 31WA1348 was expanded during the current project survey because artifacts were encountered adjacent to the previously establish site boundary. The site is still recommended not eligible for the NRHP. Of the nine previously recorded sites that were unassessed for eligibility because they were reported by amateur collectors or were part of noncompliance work, only four were relocated by Commonwealth during the current project survey. Each of these four sites is recommended not eligible for the NRHP by Commonwealth. These sites include 31WA493&493**, 31WA663&663** (Griffis Mill), 31WA787&787**, and 31WA1186&1186**. The remaining five sites could not be relocated based on the survey methods employed or because of lack of access or disturbance. These sites, 31WA4, 31WA1187, 31WA1403, 31WA1853, and 31WA1855, remain unassessed. However, the survey established that any portion of the sites that may extend into the APE would not contribute to any eligibility, except in the case of 31WA1853, which could not be surveyed because the landowner would not permit access. No evidence of the mound reported on the site form for 31WA4 was encountered, but four non-eligible sites (31WA2035, 31WA2037, 31WA2038, and 31WA2089&2089**) were newly recorded within the site boundary reported on the site form.

The 63 resources newly recorded during the survey include 31JT500, 31WA1959 through 31WA1986**, 31WA1988 through 31WA2013, and 31WA2018 through 31WA2095**. None of the isolated finds or cemeteries newly recorded during the current survey are recommended as eligible for the NRHP under Criteria A, B, C, or D. The isolated finds (n=68) lack sufficient context for further interpretation, and the historic cemeteries (31WA1984** and 31WA2095**), the surface features of which were fully documented; appear to lack significant associations or distinction in funerary features or architecture.

With the exception of one site recommended as eligible for the NRHP (31WA1997&1997**), all of the newly recorded archaeological sites (n=62) are recommended not eligible for the NRHP under Criteria A, B, C, and D. Some sites may extend outside the current APE, but (with the exception of 31WA1997&1997**), all of the site areas situated within the APE do not appear to contribute to any potential NRHP eligibility. These sites typically have either low artifact densities or evidence suggesting mixed cultural components or disturbed deposits (disturbed from plowing, erosion, deflation, and or logging-related activities). These sites appear unlikely to yield contextual data that would allow significant research questions to be addressed.

The exception, 31WA1997&1997**, is a large multicomponent scatter (mainly precontact Native American material) that is partly located on top of an upland flat that lies just east of Holland Church Road (in STIP project R-2828). The site continues to the east following a narrow ridge spur with low and wet areas on three sides. Along the ridge spur, the site appears to contain intact stratified deposits dating to the Early Archaic period and the Middle Woodland period. The site, based on the field results and an examination of regional research priorities, is recommended as eligible for the NRHP under Criterion D. The relatively intact stratified deposits at the site appear to have the potential to yield significant information on Early Archaic and Middle Woodland settlement of the Central Piedmont region and the Neuse River drainage basin that will complement recent research on similar sites both north and south along the nearby Fall Line. The site does not appear eligible under Criteria A, B, and C.

TABLE OF CONTENTS

VOLUME I: TECHNICAL REPORT

ILLUSTRATIONS	
LIST OF TABLES	
MANAGEMENT SUMMARY	i
1.0 INTRODUCTION	1-1
1.1 Project Overview and Compliance	
1.2 Project Organization and Staffing	1-7
2.0 NATURAL SETTING	
2.1 Introduction	
2.2 Physiography	
2.3 Geology and Soils	
2.4 Hydrology	
2.5 Vegetation	
3.0 CULTURAL OVERVIEW	
3.1 Precontact Background	
3.1.1 Paleoindian Period	
3.1.2 Archaic Period	
3.1.3 Woodland Period	
3.2 Historic Background	
3.2.1 Exploration to Revolution	
3.2.2 Early National and Antebellum Periods	
3.2.3 Civil War	
3.2.4 Reconstruction	
3.2.5 Twentieth Century	
4.0 ARCHAEOLOGICAL RESULTS AND RECOMMENDATIONS	
4.1 Methods	
4.1.1 Evaluation	
4.1.2 Documentary Research	
4.1.3 Field Methods	
4.1.4 Laboratory Methods	
4.1.5 Mapping/GIS	
4.2 Previous Research in the APE and Project Vicinity	
4.3 Archaeological Survey Results	
4.3.1 Introduction	
4.3.2 Results of the Archaeological Survey by STIP Project and	1
Segment	
ŠTIP R-2721	4.32
Segment A	4.32
31WA1959	4-33

STIP R2721 (Continued)	
31WA1960	4-40
31WA1961	4-40
31WA1962	4-43
31WA1963	4-43
Segment B	4-44
31WA1964	4-44
31WA1965	4-47
31WA1966	4-47
31WA1967	4-47
Segment C	4-48
31WA1968	4-49
31WA1969	4-49
Segment D	4-52
31WA1970	4-52
Segment E	4-55
31WA1971	4-56
31WA1972	4-56
Segment F	4-59
31WA1973&1973**	4-60
31WA1974	4-67
31WA1975	4-67
31WA1976&1976**	4-68
Segment G	4-68
31WA1977**	4-69
31WA1978&1978**	4-72
Segment H	4-75
31WA1979	4-76
Segment I	4-76
31WA1980	4-78
Segment J	4-79
31WA1981	4-80
31WA1982	4-84
Segment K	4-85
31WA1983&1983**	4-86
31WA1984**	4-95
31WA1985&1985**	4-106
31WA1986**	4-118
STIP R-2828	4-121
Segment L	4-121
Segment M	4-122
31WA1988	4-123
Segment N	4-124
31WA1989	4-127
31WA1990	4-130
31WA1991&1991**	4-130

STIP F	R-2828 (Continued)	
	31WA1992	4-152
	31WA1993**	4-154
	31WA1994&1994**	4-157
	Segment O	4-160
	31WA1995	4-161
	31WA1996	4-165
	Segment P	4-165
	31WA1997&1997**	+ 165 4-166
	31WA 1998	1 100 A_195
	31WA 1000	+ 195 1_105
	Sagment O	/ 105
	21WA 2000	4 -195 1 106
	21WA2000	4-190 1 204
	51 W A2001	4-204
	31 W A2002	4-204
	31 W A2003	4-204
	31WA2004	4-207
	31WA2005	4-207
	31WA2006&2006**	4-212
	31WA2007	4-213
	Segment R	4-213
	31WA2008&2008**	4-214
	31WA2009&2009**	4-221
	31WA2010	4-227
	Segment S	4-227
	31WA1186&1186** (previously recorded).	4-228
	31WA2011	4-239
	Segment T	4-239
	31WA2012	4-241
	31JT500	4-241
	31WA2013	4-248
	Segment U	4-248
	Segment V	4-249
STIP R	2-2829	4-250
	Segment W	4-250
	31WA2018	4 -250 4_250
	31WA2010	4 -250 1 253
	21WA 2020	4-255
	Sagmant V	4-233
	21WA 2021	4-237
	51 W A2021	4-258
	51 W A2022	4-261
	31 W A2023	4-261
	31 W A2024	4-261
	31WA2025	4-262
	31WA2026	4-262
	Segment Y	4-262

STIP R-2829 (continued)	
31WA2027	4-263
Segment AA	4-264
Segment BB	4-265
Segment CC	4-265
31WA2028	4-267
31WA2029	4-267
31WA2030&2030**	4-267
31WA2031	4-268
Segment DD	4-268
31WA2032	4-269
31WA2033	
Segment EE	
31WA2034	4-274
31WA2035	
31WA2036	4-280
31WA2037	4-282
31WA2038	4-282
31WA2039&2039**	4-284
Segment FF	4-293
31WA2040	4-295
31WA2041	4-296
31WA2042	4-296
31WA2043	4-296
31WA2044	4-299
31WA2045	4-300
Segment GG	4-300
31WA2046	4-305
31WA2047	4-305
Segment HH	4-306
Segment II	4-307
31WA787&787** (Previously Recorded)	4-307
31WA20/8&20/8**	A_312
31WA2049	4-312
31WA2050	4_319
31WA2051	<u>+-</u> 317 1_320
31WA2052	A_320
31WA2053	4 -320
31WA2055	4 -320 <i>A</i> -321
31WA2055	4 -321
31WA2055	<u>+-</u> 321 Δ_221
31WA2057	/_227
31 W A 2059	/ 200
31 W A 2050	4 -322
21WA2059	4 -322
S1 W A2000	4-323
Segment JJ	4-323

STIP R-2829 (continued)	
31WA2061&2061**	
31WA2062&2062**	
31WA2063	
Segment KK	
31WA2064	
31WA2065	
31WA2066&2066**	
31WA2067&2067**	
31WA2068	
31WA2069	
31WA2070	
31WA2071	
Segment LL	
31WA2072	
31WA2073	
31WA2074&2074**	
31WA2075	
31WA663&663** (Previously Re	corded) 4-359
31WA2076**	
31WA2077	
31WA2078	
31WA2079	
Segment MM	
31WA2080	
Segment NN	
31WA2081	
31WA2082&2082**	
31WA2083	
31WA2084	
Segment OO	
31WA2085	
31WA2086	
31WA2087	
Segment PP	
31WA2088	
31WA2089	
31WA2090	
31WA2091	
Segment QQ	
31WA2095**	
Segment RR	
31WA2092	
31WA2093	
31WA2094	
31WA1348 (Previously Recorded))

STIP R-2829 (continued)	
31WA493&493** (Previously Recorded)	4-448
Segment SS	4-453
Segment TT	4-454
5.0 SUMMARY AND DISCUSSION	5-1
5.1 Overview and Analysis of Survey and Evaluation Results	5-1
5.1.1 General Summary and Review of Methodology	5-1
5.1.2 Trends in Native American and Historic Sites	5-5
5.2 Summary of NRHP Recommendations	
5.2.1 Previously Recorded Sites	5-7
5.2.2 Newly Recorded Sites Recommended Not Eligible	
for the NRHP	5-7
5.2.3 Site Recommended Eligible for the NRHP	5-8
6.0 REFERENCES CITED	6-1

VOLUME II: TECHNICAL REPORT APPENDICES

APPENDIX A:	NCDOT SCOPE OF WORK
APPENDIX B:	ARTIFACT INVENTORY
APPENDIX C:	LOG OF REPRESENTATIVE SITE SHOVEL TESTS

ILLUSTRATIONS

Figure 1.1-1	NCDOT's General Location Map for the Complete 540 Triangle Expressway Southeast Extension Project in the Raleigh, North Carolina, Metropolitan Area
Figure 1.1-2	STIP Projects Comprising the Preferred Alternative for Complete 540
Figure 1.1-3	Shovel Tested Landform in STIP R-2721 (Segment A)1-4
Figure 1.1-4	Shovel Tested Landform in STIP R-2721 (Segment K)1-4
Figure 1.1-5	Residential Development and Commercial Disturbance in STIP R-2828 (Segment L) 1-5
Figure 1.1-6	Field with High Ground Surface Visibility and Disturbance from Modern Housing Development in STIP R-2828 (Segment N)
Figure 1.1-7	Recent Erosion in Clear Cut Area in STIP R-2829 (Segment FF) 1-6
Figure 1.1-8	Active Floodplain Area Along Neuse River in STIP R-2829 (Segment LL)1-6
Figure 2.1-1	Physiographic and Cultural Regions of North Carolina, from Phelps (1983:3)
Figure 3.2-1	Detail of the 1770 "A Compleat Map of North-Carolina from an Actual Survey," Showing the Approximate Location of the Project Area (Collet 1770)
Figure 3.2-2	Detail of the 1833 "A New Map of the State of North Carolina. Constructed from Actual Surveys, authentic Public Documents and private Contributions by Robt. H. B. Brazier, Published under the Patronage of the Legislature, by John Mac Rae", Showing the Approximate Location of the Project Area (Brazier 1833)
Figure 3.2-3	Detail of the 1871 "Map of Wake County" Showing the Approximate Location of the Project Area (Bevers 1871)
Figure 3.2-4	Detail of 1899 Rand McNally Map of North Carolina Showing Wake County and the Approximate Location of the Project Area (Rand McNally and Company 1899)

Figure 3.2-5	Detail of 1910 Rural Delivery Routes, Map for Wake County, Showing the Approximate Location of the Project Area (United States Post Office Department 1910)
Figure 3.2-6	Detail of a 1938 Map of Johnston County, North Carolina (State Highway and Public Works Commission), Showing the Approximate Location of the Project Area (North Carolina State Highway and Public Works Commission 1938a)
Figure 3.2-7	Detail of a 1938 Map of Wake County, North Carolina (State Highway and Public Works Commission), Showing the Approximate Location of the Project Area (North Carolina State Highway and Public Works Commission 1938b)
Figure 4.3-1a	Survey Area Conditions and Strategies, Map 1 of 5 4-13
Figure 4.3-1b	Survey Area Conditions and Strategies, Map 2 of 5
Figure 4.3-1c	Survey Area Conditions and Strategies, Map 3 of 5 4-15
Figure 4.3-1d	Survey Area Conditions and Strategies, Map 4 of 5 4-16
Figure 4.3-1e	Survey Area Conditions and Strategies, Map 5 of 5 4-17
Figure 4.3-2a	Archaeological Resources in the APE, Map 1 of 5 4-18
Figure 4.3-2b	Archaeological Resources in the APE, Map 2 of 5 4-19
Figure 4.3-2c	Archaeological Resources in the APE, Map 3 of 5 4-20
Figure 4.3-2d	Archaeological Resources in the APE, Map 4 of 5 4-21
Figure 4.3-2e	Archaeological Resources in the APE, Map 5 of 5 4-22
Figure 4.3-3	Map of Site 31WA1959
Figure 4.3-4	View of Site 31WA1959, Looking Southwest 4-35
Figure 4.3-5	Site 31WA1959, Test Unit 1, Sketch of West Profile 4-36
Figure 4.3-6	31WA1959, Test Unit 1, Photograph of West Profile 4-36
Figure 4.3-7	Site 31WA1959, Test Unit 2, Sketch of North Profile 4-37
Figure 4.3-8	31WA1959, Test Unit 2, Photograph of North Profile

Figure 4.3-9	Map of Site 31WA1961	. 4-41
Figure 4.3-10	View of Site 31WA1961, Looking Southwest	. 4-42
Figure 4.3-11	Map of Site 31WA1964	. 4-45
Figure 4.3-12	View of Site 31WA1964, Looking North	. 4-46
Figure 4.3-13	Map of Site 31WA1969	. 4-50
Figure 4.3-14	View of Site 31WA1969, Looking Southwest	. 4-51
Figure 4.3-15	Map of Site 31WA1970	. 4-53
Figure 4.3-16	View of Site 31WA1970, Looking Northwest	. 4-54
Figure 4.3-17	Map of Site 31WA1971	. 4-57
Figure 4.3-18	View of Site 31WA1971, Looking Southwest	. 4-58
Figure 4.3-19	Map of Site 31WA1973	. 4-61
Figure 4.3-20	View of Site 31WA1973&1973**, Looking Southwest	. 4-62
Figure 4.3-21	Site 31WA1973&1973**, Test Unit 1, Sketch of South Profile	. 4-65
Figure 4.3-22	Site 31WA1973&1973**, Test Unit 1, Photograph of South Profile	. 4-65
Figure 4.3-23	Site 31WA1973&1973**, Test Unit 2, Sketch of South Profile	. 4-66
Figure 4.3-24	31WA1973&1973**, Test Unit 2, Photograph of South Profile	. 4-66
Figure 4.3-25	Map of Site 31WA1977**	. 4-70
Figure 4.3-26	View of Site 31WA1977**, Looking East	. 4-71
Figure 4.3-27	Map of Site 31WA1978&1978**	. 4-73
Figure 4.3-28	View of Site 31WA1978&1978**, Looking East	. 4-74
Figure 4.3-29	Large Triangular Point from 31WA1979 (Acc.# 2017.0049.01)	. 4-77
Figure 4.3-30	Map of Site 31WA1981	. 4-81
Figure 4.3-31	View of Site 31WA1981, Looking Northwest	. 4-82

Figure 4.3-32	View of Site 31WA1981, Looking Southeast
Figure 4.3-33	Site 31WA1981 Test Unit 1, Sketch of East Profile 4-83
Figure 4.3-34	31WA1981, Test Unit 1, Photograph of East Profile 4-83
Figure 4.3-35	Map of Site 31WA1983 4-87
Figure 4.3-36	View of Site 31WA1983&1983**, Looking Northwest 4-88
Figure 4.3-37	Native American Artifacts from 31WA1983&1983**: a) Late Stage Biface (Acc.# 2017.0053.01); b) Savannah River Stemmed Point Base (Acc.# 2017.0053.35)
Figure 4.3-38	Site 31WA1983&1983**, Test Unit 1, Sketch of North Profile 4-91
Figure 4.3-39	31WA1983&1983**, Test Unit 1, Photograph of North Profile
Figure 4.3-40	Site 31WA1983&1983**, Test Unit 2, Sketch of North Profile 4-92
Figure 4.3-41	31WA1983&1983**, Test Unit 2, Photograph of North Profile
Figure 4.3-42	Site 31WA1983&1983**, Test Unit 3, Sketch of West Profile 4-96
Figure 4.3-43	31WA1983&1983**, Test Unit 3, Photograph of West Profile
Figure 4.3-44	Site 31WA1983&1983**, Test Unit 4, Sketch of North Profile 4-97
Figure 4.3-45	31WA1983&1983**, Test Unit 4, Photograph of North Profile 4-97
Figure 4.3-46	Sketch Map of McCullers Family Cemetery (31WA1984**)
Figure 4.3-47	General View of the McCullers Family Cemetery (31WA1984**) 4-99
Figure 4.3-48	Gravemarker for Captain Mathew Jones McCullers at 31WA1984**4-99
Figure 4.3-49	Gravemarker for Harriet Stephenson at 31WA1984** 4-101
Figure 4.3-50	Twentieth-Century Gravemarker at 31WA1984** 4-101
Figure 4.3-51	World War I Veteran's Gravemarker at 31WA1984**4-103
Figure 4.3-52	Another Example of Twentieth-Century Gravemarker at 31WA1984**
Figure 4.3-53	Ornate Gravemarker at 31WA1984**

Figure 4.3-54	Individual Gravemarker for Captain Mathew Jones McCullers at 31WA1984**
Figure 4.3-55	Map of Site 31WA1985&1985**
Figure 4.3-56	View of Site 31WA1985&1985**, Looking Southeast
Figure 4.3-57	Historic Artifacts from 31WA1985&1985**: a) Hand-Painted Whiteware (Acc.# 2017.0054.37); b) Edged Pearlware (Acc.# 2017.0054.58) 4-110
Figure 4.3-58	Site 31WA1985&1985**, Test Unit 1, Sketch of North Profile 4-112
Figure 4.3-59	Site 31WA1985&1985**, Test Unit 1, Photograph of North Profile 4-112
Figure 4.3-60	Site 31WA1985&1985**, Test Unit 2, Sketch of West Profile 4-113
Figure 4.3-61	Site 31WA1985&1985**, Test Unit 2, Photograph of West Profile 4-113
Figure 4.3-62	Site 31WA1985&1985**, Test Unit 3, Sketch of North Profile 4-115
Figure 4.3-63	Site 31WA1985&1985**, Test Unit 3, Photograph of North Profile 4-115
Figure 4.3-64	Site 31WA1985&1985**, Test Unit 4, Sketch of North Profile 4-116
Figure 4.3-65	31WA1985&1985**, Test Unit 4, Photograph of North Profile 4-116
Figure 4.3-66	Map of Site 31WA1986**
Figure 4.3-67	View of Site 31WA1986**, Looking West
Figure 4.3-68	Site 31WA1986** Example of Wooden Pegs and Boulder Pillar, Looking Southwest
Figure 4.3-69	Map of Site 31WA1988
Figure 4.3-70	View of Site 31WA1988, Looking Southeast
Figure 4.3-71	Map of Site 31WA1989
Figure 4.3-72	View of Site 31WA1989, Looking West
Figure 4.3-73	Map of Site 31WA1991&1991**, 31WA1992, and 31WA1993**4-131
Figure 4.3-74	View of Site 31WA1991&1991**, Looking Northwest

Figure 4.3-75	View of Site 31WA1991&1991**, Looking Southeast
Figure 4.3-76	Historic Artifacts from 31WA1991&1991**: a) Molded Whiteware (Acc.# 2017.0065.01); b) Sponged Whiteware (Acc.# 2017.0065.01); c) Copper or Brass Button (Acc.# 2017.0065.01); d) Edged Pearlware (Acc.# 2017.0065.01); e) Clear Container Glass Finish (Acc.# 2017.0065.01); f) Cobalt Blue Container Glass Finish (Acc.# 2017.0065.01); g) Heat- Altered Whiteware (Acc.# 2017.0065.01)
Figure 4.3-77	Historic Artifacts from 31WA1991&1991**: a-c) Hand-Painted Whiteware (Acc.# 2017.0065.01); d) Fire-King Jade-ite Table Glass (Acc.# 2017.0065.01)
Figure 4.3-78	Points from 31WA1991&1991**: a) Guilford Lanceolate (Acc.# 2017.0065.01); b) Big Sandy Side Notched (Acc.# 2017.0065.01) 4-135
Figure 4.3-79	Points from 31WA1991&1991**: a) Indeterminate Eared (Acc.# 2017.0065.01); b-c) Indeterminate Stemmed (Acc.# 2017.0065.01)4-135
Figure 4.3-80	Points from 31WA1991&1991**: a) Small Savannah River Stemmed (Acc.# 2017.0065.01); b) Indeterminate Stemmed (Acc.# 2017.0065.01); and c) Small Savannah River Stemmed (Acc.# 2017.0065.01)
Figure 4.3-81	Points from 31WA1991&1991**: a) Indeterminate with Pointed Stem (Acc.# 2017.0065.02); b-d) Morrow Mountain II Stemmed (Acc.# 2017.0065.01)
Figure 4.3-82	Middle and Late Stage Bifaces from 31WA1991&1991** (Acc.# 2017.0065.01)
Figure 4.3-83	Site 31WA1991&1991**, Test Unit 2, Sketch of East Profile 4-140
Figure 4.3-84	Site 31WA1991&1991**, Test Unit 2, Photograph of East Profile 4-140
Figure 4.3-85	Site 31WA1991&1991**, Test Unit 4, Sketch of North Profile 4-142
Figure 4.3-86	Site 31WA1991&1991**, Test Unit 4, Photograph of North Profile 4-142
Figure 4.3-87	Site 31WA1991&1991**, Test Unit 6, Sketch of East Profile 4-143
Figure 4.3-88	Site 31WA1991&1991**, Test Unit 6, Photograph of East Profile 4-143
Figure 4.3-89	Site 31WA1991&1991**, Test Unit 7, Sketch of North Profile 4-144
Figure 4.3-90	Site 31WA1991&1991**, Test Unit 7, Photograph of North Profile 4-144

Figure 4.3-91	Site 31WA1991&1991**, Test Unit 9, Sketch of East Profile
Figure 4.3-92	Site 31WA1991&1991**, Test Unit 9, Photograph of East Profile 4-146
Figure 4.3-93	Site 31WA1991&1991**, Test Unit 11, Sketch of West Profile 4-147
Figure 4.3-94	Site 31WA1991&1991**, Test Unit 11 Feature, Sketch of North Profile
Figure 4.3-95	Site 31WA1991&1991**, Test Unit 11 Feature, Photograph of North Profile
Figure 4.3-96	View of Site 31WA1992, with Landform at 31WA1991&1991**, Looking West
Figure 4.3-97	View of Site 31WA1993**, Looking West 4-155
Figure 4.3-98	Historic Artifacts from 31WA1993**: a) Heat-Altered Pearlware (Acc.# 2017.0067.01); b) Heat-Altered White Granite (Ironstone) (Acc.# 2017.0067.01); c) Heat-Altered Solarized/Manganese Dioxide Decolorized Container Glass (Acc.#2017.0067.01); d) Heat-Altered Opaque White "Milk Glass" (Acc.# 2017.0067.01)
Figure 4.3-99	Map of Site 31WA1994
Figure 4.3-100	View of Site 31WA1994, Looking Southwest 4-159
Figure 4.3-101	Map of Site 31WA1995
Figure 4.3-102	View of Site 31WA1995, Looking Northeast4-162
Figure 4.3-103	Native American Artifacts from 31WA1995: a) Late Stage Biface (Acc.# 2017.0069.01); b) Morrow Mountain II Stemmed Point (Acc.# 2017.0069.01); c) Kirk Stemmed Point (Acc.# 2017.0069.01)
Figure 4.3-104	View of Site 31WA1997&1997** Wooded Area on Ridge Toe, Looking Northeast
Figure 4.3-105	View of Site 31WA1997&1997** on Top of Upland in Agricultural Field, Looking East
Figure 4.3-106	Map of Site 31WA1997&1997**
Figure 4.3-107a	Yadkin Series Ceramics from 31WA1997&1997**, Cord Marked Body and Base Sherds (Acc.# 2017.0071.50)

Figure 4.3-107b	Yadkin Series Ceramics from 31WA1997&1997**, Fabric Impressed Body Sherds (Acc.# 2017.0071.50)
Figure 4.3-107c	Yadkin Series Ceramics from 31WA1997&1997**, Fabric Impressed Rim and Body Sherds (Acc.# 2017.0071.50)
Figure 4.3-107d	Yadkin Series Ceramics from 31WA1997&1997**, Fabric Impressed Rim Sherd (Acc.# 2017.0071.50)
Figure 4.3-107e	Yadkin-Like Body Sherd from 31WA1997&1997** (Acc.# 2017.0071.70)
Figure 4.3-107f	Clay Impression from Yadkin-Like Body Sherd (Above) from 31WA1997&1997** (Acc.# 2017.0071.70)
Figure 4.3-107g	Palmer Corner Notched Point from 31WA1997&1997** (Acc.# 2017.0071.18)
Figure 4.3-107h	Palmer Corner Notched Point from 31WA1997&1997** (Acc.# 2017.0071.78)
Figure 4.3-107i	Indeterminate Notched Point from 31WA1997&1997** (Acc.# 2017.0071.71)
Figure 4.3-107j	Points from 31WA1997&1997**: a) Small Triangular (Acc.# 2017.0071.01); b-d) Halifax Side Notched (Acc.# 2017.0071.01); e) Stanly Stemmed Base (Acc.# 2017.0071.01); f) Indeterminate Stemmed Point (Acc.# 2017.0071.01)
Figure 4.3-107k	Large Triangular Point Base from 31WA1997&1997** (Acc.# 2017.0071.78)
Figure 4.3-108	Site 31WA1997&1997**, Test Unit 1 & 2 Feature 1, Sketch of West Profile
Figure 4.3-109	Site 31WA1997&1997**, Test Unit 1 & 2 Feature 1, Photograph of West Profile
Figure 4.3-110	Site 31WA1997&1997**, Test Unit 1, Sketch of North Profile 4-178
Figure 4.3-111	31WA1997&1997**, Test Unit 1 & 2, Photograph of North Profile
Figure 4.3-112	Site 31WA1997&1997**, Test Unit 6, Sketch of North Profile 4-180
Figure 4.3-113	31WA1997&1997**, Test Unit 6, Photograph of North Profile 4-180

Figure 4.3-114	Site 31WA1997&1997**, Test Unit 7, Sketch of East Profile	4-182
Figure 4.3-115	31WA1997&1997**, Test Unit 7, Photograph of East Profile	4-182
Figure 4.3-116	Site 31WA1997&1997**, Test Unit 8, Sketch of West Profile	4-187
Figure 4.3-117	31WA1997&1997**, Test Unit 8, Photograph of West Profile	4-187
Figure 4.3-118	Small Savannah River Stemmed Point from 31WA1998 (Acc.# 2017.0072.01)	4-194
Figure 4.3-119	Map of Site 31WA2000	4-197
Figure 4.3-120	View of Site 31WA2000, Looking East	4-198
Figure 4.3-121	Points from 31WA2000: a) Yadkin Large Triangular Eared Variety (Acc.# 2017.0074.02); b) Morrow Mountain II Stemmed (Acc.# 2017.0074.05)	4-199
Figure 4.3-122	Site 31WA2000, Test Unit 1, Sketch of North Profile	4-200
Figure 4.3-123	31WA2000, Test Unit 1, Photograph of North Profile	4-200
Figure 4.3-124	Site 31WA2000, Test Unit 2, Sketch of East Profile	4-201
Figure 4.3-125	31WA2000, Test Unit 2, Photograph of East Profile	4-201
Figure 4.3-126	Map of Site 31WA2003	4-205
Figure 4.3-127	View of Site 31WA2003, Looking East	4-206
Figure 4.3-128	Map of Site 31WA2005	4-208
Figure 4.3-129	View of Site 31WA2005, Looking East.	4-209
Figure 4.3-130	Map of Site 31WA2006	4-210
Figure 4.3-131	View of Site 31WA2006&2006**, Looking South	4-211
Figure 4.3-132	Map of Site 31WA2008&2008**	4-216
Figure 4.3-133	View of Site 31WA2008&2008**, Looking West	4-217
Figure 4.3-134	Site 31WA2008&2008**, Test Unit 1, Sketch of North Profile	4-218

Figure 4.3-135	31WA2008&2008**, Test Unit 1, Photograph of North Profile 4-218
Figure 4.3-136	Site 31WA2008&2008**, Test Unit 2, Sketch of East Profile
Figure 4.3-137	31WA2008&2008**, Test Unit 2, Photograph of East Profile
Figure 4.3-138	Points from 31WA2008&2008**: a) Savannah River Stemmed (Acc.# 2017.0082.01); b) Morrow Mountain II Stemmed (Acc.# 2017.0082.01)
Figure 4.3-139	Map of Site 31WA2009
Figure 4.3-140	View of Site 31WA2009&2009**, Looking East 4-223
Figure 4.3-141	Site 31WA2009&2009**, Test Unit 1, Sketch of West Profile 4-224
Figure 4.3-142	31WA2009&2009**, Test Unit 1, Photograph of West Profile
Figure 4.3-143	Yadkin Series Fabric Impressed Body Sherd from 31WA2009&2009** (Acc.# 2017.0083.09)
Figure 4.3-144	Map of Site 31WA1186&1186**
Figure 4.3-145	View of Site 31WA1186&1186**, Looking North
Figure 4.3-146	Ground Stone Tool from 31WA1186&1186** (Acc.# 2017.0085.08)
Figure 4.3-147	Historic Artifacts from 31WA1186&1186**: a) Edged Pearlware (2017.0085.01); b) Transfer-Printed Pearlware (2017.0085.01); c) Porcelain Figurine Wheel (Acc.# 2017.0085.02), and d) Edged Pearlware (2017.0085.01)
Figure 4.3-148	Indeterminate Corner Notched Point from 31WA1186&1186** (Acc.# 2017.0085.22)
Figure 4.3-149	Palmer Corner Notched Point from 31WA1186&1186** (Acc.# 2017.0085.11)
Figure 4.3-150	Site 31WA1186&1186**, Test Unit 1, Sketch of North Profile 4-236
Figure 4.3-151	Site 31WA1186&1186**, Test Unit 2, Sketch of East Profile 4-236
Figure 4.3-152	Possible Small Dalton Point and Middle to Late Stage Biface from 31WA1186&1186** (Acc.# 2017.0085.34)

Figure 4.3-153	Possible Small Dalton Point from 31WA1186&1186** (Acc.# 2017.0085.34)
Figure 4.3-154	Possible Savannah River Stemmed from 31WA2012 (Acc.# 2017.0087.01)
Figure 4.3-155	Map of Site 31JT500
Figure 4.3-156	View of Site 31JT500, Looking North 4-243
Figure 4.3-157	Indeterminate Net-Impressed Body Sherd from 31JT500 (Acc.# 2017.0088.06)
Figure 4.3-158	Site 31JT500, Test Unit 1, Sketch of West Profile
Figure 4.3-159	31JT500, Test Unit 1, Photograph of West Profile
Figure 4.3-160	Map of Site 31WA2019
Figure 4.3-161	View of Site 31WA2019, Looking North
Figure 4.3-162	Map of Site 31WA2020
Figure 4.3-163	View of Site 31WA2020, Looking South
Figure 4.3-164	Yadkin Series Ceramics from 31WA2020, Fabric Impressed Rim and Body Sherds (Acc.# 2017.0145.01)
Figure 4.3-165	Map of Site 31WA2022 and 31WA2023
Figure 4.3-166	View of Site 31WA2022 and 31WA2023, Looking North 4-260
Figure 4.3-167	Map of Site 31WA2032
Figure 4.3-168	View of Site 31WA2032, Looking North
Figure 4.3-169	Miniature Palmer Corner Notched Point from 31WA2032 (Acc.# 2017.0157.03)
Figure 4.3-170	Map of Site 31WA2034
Figure 4.3-171	View of Site 31WA2034, Looking East
Figure 4.3-172	Indeterminate Stemmed Point from 31WA2034 (Acc.# 2017.0159.01)

Figure 4.3-173	Yadkin Fabric Impressed Body Sherd from 31WA2034, Possible Badin or Yadkin Series (Acc.# 2017.0159.03)
Figure 4.3-174	Net Impressed Sherds from 31WA2034, Indeterminate Series (Acc.# 2017.0159.11)
Figure 4.3-175	Site 31WA2034, Test Unit 1, Sketch of North Profile 4-281
Figure 4.3-176	31WA2034, Test Unit 1, Photograph of North Profile
Figure 4.3-177	Map of Site 31WA2038 and 31WA2039&2039**
Figure 4.3-178	View of Site 31WA2038, Looking East 4-285
Figure 4.3-179	View of Site 31WA2039&2039**, Looking East 4-286
Figure 4.3-180	Savannah River Stemmed Point from 31WA2039&2039** (Acc.# 2017.0164.42)
Figure 4.3-181	Big Sandy Side Notched Point from 31WA2039&2039** (Acc.# 2017.0164.29)
Figure 4.3-182	Site 31WA2039&2039**, Test Unit 1, Sketch of East Profile 4-288
Figure 4.3-183	31WA2039&2039**, Test Unit 1, Photograph of East Profile 4-288
Figure 4.3-184	Site 31WA2039&2039**, Test Unit 2, Sketch of North Profile 4-289
Figure 4.3-185	31WA2039&2039**, Test Unit 2, Photograph of North Profile 4-289
Figure 4.3-186	Site 31WA2039&2039**, Test Unit 3, Sketch of North Profile 4-294
Figure 4.3-187	31WA2039&2039**, Test Unit 3, Photograph of North Profile 4-294
Figure 4.3-188	Map of Site 31WA2042
Figure 4.3-189	View of Site 31WA2042, Looking Northwest 4-290
Figure 4.3-190	Map of Site 31WA2044
Figure 4.3-191	View of Site 31WA2044, Looking Southwest 4-302
Figure 4.3-192	Map of Site 31WA2045
Figure 4.3-193	View of Site 31WA2045, Looking Northwest 4-304

Figure 4.3-194	Map of Site 31WA787&787**	4-309
Figure 4.3-195	View of Site 31WA787&787**, Looking West	4-310
Figure 4.3-196	 Native American Artifacts from 31WA787&787**: a) Late Stage Biface (Acc.# 2017.186.01); b) Yadkin Series Ceramic Sherd (Acc.# 2017.186.01); and c) Indeterminate Stemmed Point (Acc.# 2017.186.01) 	4-312
Figure 4.3-197	 Historic Artifacts from 31WA787&787**: a) Edged Pearlware (Acc.# 2017.186.01); b) Hand-Painted Pearlware (Acc.# 2017.186.01); c) Very Dark Olive Green Container Glass (Acc.# 2017.186.01); d) Aqua Container Glass (Acc.# 2017.186.01); e) Pearlware (Acc.# 2017.186.01); f) Hand-Painted Whiteware (Acc.# 2017.186.01) 	4-312
Figure 4.3-198	Map of Site 31WA2048&2048**	4-313
Figure 4.3-199	View of Site 31WA2048&2048**, Looking East	4-314
Figure 4.3-200	Native American Artifacts from 31WA2048&2048**: a) Indeterminate Point Tip or Drill (Acc.# 2017.0173.01); b) Savannah River Stemmed Point (Acc.# 2017.0173.01)	4-315
Figure 4.3-201	Map of Site 31WA2049	4-317
Figure 4.3-202	View of Site 31WA2049, Looking Northwest	4-318
Figure 4.3-203	Map of Site 31WA2061&2061**, 31WA2062&2062**, and 31WA2063	4-325
Figure 4.3-204	View of Site 31WA2061&2061**, Looking North	4-326
Figure 4.3-205	Site 31WA2061&2061**, Test Unit 1, Sketch of North Profile	4-327
Figure 4.3-206	31WA2061&2061**, Test Unit 1, Photograph of North Profile	4-327
Figure 4.3-207	Site 31WA2061&2061**, Test Unit 2, Sketch of East Profile	4-330
Figure 4.3-208	31WA2061&2061**, Test Unit 2, Photograph of East Profile	4-330
Figure 4.3-209	View of Site 31WA2062&2062**, Looking South	4-332
Figure 4.3-210	View of 31WA2062&2062**, Looking North	4-332

Figure 4.3-211	View of Site 31WA2063, Looking Northwest	4-334
Figure 4.3-212	Map of Site 31WA2065	4-337
Figure 4.3-213	View of Site 31WA2065, Looking North	4-338
Figure 4.3-214	Yadkin Series Ceramic from 31WA2065, Fabric Impressed B (Acc.# 2017.0191.03)	ody Sherd 4-339
Figure 4.3-215	Map of Site 31WA2066&2066** and 31WA2069	4-341
Figure 4.3-216	View of Site 31WA2066&2066**, Looking East	4-342
Figure 4.3-217	 Historic Ceramics from 31WA2066&2066**: a) Edged Whiteware (Acc.# 2017.0192.01); b) Transfer-Printed Whiteware (Acc.# 2017.0192.01); c-d) Blue Willow Whiteware (Acc.# 2017.0192.01); e) Transfer-Printed Whiteware (Acc.# 2017.0192.01); f) Decal Decorated Whiteware (Acc.# 2017.0192.01); g) Homer Laughlin Whiteware (Acc.# 2017.0192.01) 	4-343
Figure 4.3-218	Map of Site 31WA2068	4-346
Figure 4.3-219	View of Site 31WA2068, Looking East	4-347
Figure 4.3-220	View of Site 31WA2069, Looking West	4-348
Figure 4.3-221	Native American Artifacts from 31WA2069: a) End Scraper (Acc.# 2017.0195.01); b) Savannah River Stemmed Point Base (Acc.# 2017.0195.01) 4-349
Figure 4.3-222	Yadkin Series Body Sherd from 31WA2070 (Acc.# 2017.0196.01)	4-351
Figure 4.3-223	Map of Site 31WA2071	4-352
Figure 4.3-224	View of Site 31WA2071, Looking South	4-353
Figure 4.3-225	Map of Site 31WA2074	4-357
Figure 4.3-226	View of Site 31WA2074&2074**, Looking North	4-358
Figure 4.3-227	Chert Large Triangular Point from 31WA2075 (Acc.# 2017.0201.01)	4-359

Figure 4.3-228	Location of 31WA663&663** and 31WA2076** in Relation to Current Battle Bridge Road
Figure 4.3-229	Location of 31WA663&663** and 31WA2076** on 1871 Map of Wake County (Bevers 1871)
Figure 4.3-230	Recent View of Yates Mill (HPO# WA0050) in Wake County, North Carolina (Wikipedia 2017a)
Figure 4.3-231	Yates Mill circa 1890-1920 (Wikipedia 2017b)
Figure 4.3-232	Location of 31WA663&663** on 1964 Orthoimagery (USGS Earth Explorer 1964)
Figure 4.3-233	Locations of 31WA663&663** with Respect to Current Parcel Ownership
Figure 4.3-234	1883 Map Showing Division of the Haywood Griffis Lands (Wake County Register of Deeds Deed Book 76:447)
Figure 4.3-235	Map of Site 31WA663&663** and 31WA2079 4-369
Figure 4.3-236	Mill Ruins at 31WA663&663** Showing the Front of the Mill Structure, Looking West
Figure 4.3-237	Mill Structure at 31WA663&663**, Looking Southeast 4-371
Figure 4.3-238	Detail of Northwestern Corner of Mill Structure (Shown with White Line to Right) and Rubble from Wheel Mount (Shown with White to Left) at 31WA663&663**, Looking Northeast
Figure 4.3-239	Detail of Northeastern Corner and Northern Wall of Mill at 31WA663&663**, Looking Southwest
Figure 4.3-240	Remant Section of Millpond Dam at 31WA663&663**, Looking West
Figure 4.3-241	Mill Head Race at 31WA663&663**, Looking Northeast 4-375
Figure 4.3-242	Stone Pile or Possible Chimney Fall Representing Possible Miller's House at 31WA663&663**, Looking Northeast
Figure 4.3-243	Stone-Lined Well Near Possible Miller's House at 31WA663&663**, Looking West

Figure 4.3-244	Road Trace, Likely Old Battle Bridge Road Alignment, at 31WA663&663**, Looking Northwest
Figure 4.3-245	Engraved Boulder at 31WA663&663**, Looking Northeast 4-379
Figure 4.3-246	Glass Bead from 31WA663&663** (Acc.# 2017.020.19)
Figure 4.3-247	Whiteware Platter Rim Fragment from 31WA663&663** (Acc.# 2017.020.19)
Figure 4.3-248	Historic Artifacts from 31WA663&663**: a-c) Cut Nails (Acc.# 2017.0202.13); d) Whiteware (Acc.# 2017.0202.13)
Figure 4.3-249	Map of Site 31WA2076
Figure 4.3-250	Possible Wall Ruin at 31WA2076**, Looking Northeast
Figure 4.3-251	View of Site 31WA2079, Looking East
Figure 4.3-252	Map of Site 31WA2080
Figure 4.3-253	View of Site 31WA2080, Looking South
Figure 4.3-254	Map of Site 31WA2081
Figure 4.3-255	View of Site 31WA2081, Looking North
Figure 4.3-256	Map of Site 31WA2082&2082**
Figure 4.3-257	View of Site 31WA2082&2082**, Looking South
Figure 4.3-258	Yadkin Series Ceramics from 31WA2082&2082**, Fabric Impressed Body Sherds (Acc.# 2017.0209.11)
Figure 4.3-259	Yadkin Series Ceramics from 31WA2082&2082**, Fabric Impressed Body Sherds (Acc.# 2017.0209.11)
Figure 4.3-260	Points from 31WA2082&2082**: a) Possible Savannah River Stemmed (Acc.# 2017.0209.13); b) Guilford Lanceolate (Acc.# 2017.0209.09)
Figure 4.3-261	Indeterminate Stemmed Point from 31WA2082&2082** (Acc.# 2017.0209.20)
Figure 4.3-262	Indeterminate Point from 31WA2082&2082** (Acc.# 2017.0209.03)

Figure 4.3-263	Indeterminate Impressed Body Sherds from 31WA2082&2082** (Acc.# 2017.0209.26)	4-403
Figure 4.3-264	Indeterminate Net Impressed Rim and Body Sherds from 31WA2082&2082** (Acc.# 2017.0209.27)	4-403
Figure 4.3-265	Map of Site 31WA2085	4-408
Figure 4.3-266	View of Site 31WA2085, Looking East	4-409
Figure 4.3-267	Site 31WA2085, Test Unit 1, Sketch of East Profile	4-410
Figure 4.3-268	31WA2085, Test Unit 1, Photograph of East Profile	4-410
Figure 4.3-269	Site 31WA2085, Test Unit 2, Sketch of North Profile	4-412
Figure 4.3-270	31WA2085 Test Unit 2, Photograph of North Profile	4-412
Figure 4.3-271	Indeterminate Eared Triangular Point from 31WA2085 (Acc.# 2017.0212.27)	4-413
Figure 4.3-272	Map of Site 31WA2086 and 31WA2087	4-416
Figure 4.3-273	View of Site 31WA2086, Looking Southeast	4-417
Figure 4.3-274	View of Site 31WA2087, Looking East	4-419
Figure 4.3-275	Indeterminate Cord Marked Body Sherd from 31WA2087 (Acc.# 2017.0214.09)	4-420
Figure 4.3-276	Indeterminate Fabric Impressed Body Sherds from 31WA2087 (Acc.# 2017.0124.05)	4-420
Figure 4.3-277	Site 31WA2087, Test Unit 1, Sketch of West Profile	4-421
Figure 4.3-278	31WA2087, Test Unit 1, Photograph of West Profile	4-421
Figure 4.3-279	Site 31WA2087, Test Unit 2, Sketch of North Profile	4-423
Figure 4.3-280	31WA2087, Test Unit 2, Photograph of North Profile	4-423
Figure 4.3-281	Site 31WA2087 Test Unit 3, Sketch of East Profile	4-424
Figure 4.3-282	31WA2087 Test Unit 3, Photograph of East Profile	4-424

Figure 4.3-283	Map of Site 31WA2088	4-428
Figure 4.3-284	View of Site 31WA2088, Looking Southeast	4-429
Figure 4.3-285	Indeterminate Net Impressed Body Sherd from 31WA2088 (Acc.# 2017.0125.01)	4-430
Figure 4.3-286	Map of Site 31WA2089	4-432
Figure 4.3-287	View of Site 31WA2089, Looking West	4-433
Figure 4.3-288	Map of Site 31WA2095	4-436
Figure 4.3-289	View of Site 31WA2095**, Looking East	4-437
Figure 4.3-290	View of Dolly Hinton Headstone 31WA2095**, Looking East	4-437
Figure 4.3-291	Map of Site 31WA2092	4-441
Figure 4.3-292	View of Site 31WA2092, Looking South	4-442
Figure 4.3-293	Map of Site 31WA2093	4-444
Figure 4.3-294	View of Site 31WA2093, Looking South	4-445
Figure 4.3-295	Map of Site 31WA2094	4-446
Figure 4.3-296	View of Site 31WA2094, Looking South	4-447
Figure 4.3-297	Map of Site 31WA1348	4-449
Figure 4.3-298	View of Site 31WA1348, Looking West	4-450
Figure 4.3-299	Map of Site 31WA493	4-451
Figure 4.3-300	View of Site 31WA493, Looking Southwest	4-452

LIST OF TABLES

Table 1.1-1	Summary of the APEs for STIP R-2721, R-2828, and R-2829 1-7
Table 2.3-1	Detailed List of Soils within the Current APE (USDA/NRCS 2017) 2-4
Table 4.3-1	Summary of Archaeological Resources in the Current APE 4-23
Table 4.3-2	Segment A Survey Summary
Table 4.3-3	Summary of Artifacts Recovered from Test Unit 1 at 31WA1959, by Zone and Level
Table 4.3-4	Summary of Artifacts Recovered from Test Unit 2 at 31WA1959, by Zone and Level
Table 4.3-5	Summary of Artifacts Recovered from 31WA1959 4-39
Table 4.3-6	Segment B Survey Summary
Table 4.3-7	Segment C Survey Summary
Table 4.3-8	Segment D Survey Summary
Table 4.3-9	Segment E Survey Summary 4-55
Table 4.3-10	Segment F Survey Summary 4-59
Table 4.3-11	Summary of Artifacts Recovered from 31WA1973&1973**4-63
Table 4.3-12	Summary of Artifacts Recovered from Test Unit 1 at 31WA1973&1973**, by Zone and Level
Table 4.3-13	Summary of Artifacts Recovered from Test Unit 2 at 31WA1973&1973**, by Zone and Level
Table 4.3-14	Segment G Survey Summary
Table 4.3-15	Summary of Artifacts Recovered from 31WA1978&1978**4-72
Table 4.3-16	Segment H Survey Summary
Table 4.3-17	Segment I Survey Summary
Table 4.3-18	Segment J Survey Summary

Table 4.3-19	Summary of Artifacts Recovered from 31WA1981	
Table 4.3-20	Segment K Survey Summary	4-85
Table 4.3-21	Summary of Artifacts Recovered from 31WA1983&1983**	4-93
Table 4.3-22	Summary of Artifacts Recovered from Test Unit 1 at 31WA1983&1983**, by Zone and Level	4-93
Table 4.3-23	Summary of Artifacts Recovered from Test Unit 2 at 31WA1983&1983**, by Zone and Level	4-94
Table 4.3-24	Summary of Artifacts Recovered from Test Unit 3 at 31WA1983&1983**, by Zone and Level	4-94
Table 4.3-25	List of Individuals Buried at the McCullers Family Cemetery E Gravemarker Inscriptions	Based on 4-100
Table 4.3-26	Summary of Artifacts Recovered from Test Unit 2 at 31WA1985&1985**, by Zone and Level	4-111
Table 4.3-27	Summary of Artifacts Recovered from Test Unit 3 at 31WA1985&1985**, by Zone and Level	4-114
Table 4.3-28	Summary of Artifacts Recovered from 31WA1985&1985**	4-117
Table 4.3-29	Segment L Survey Summary	4-121
Table 4.3-30	Segment M Survey Summary	4-122
Table 4.3-31	Segment N Survey Summary	4-124
Table 4.3-32	Summary of Artifacts Recovered from Test Unit 1 at 31WA1991&1991**, by Zone and Level	4-139
Table 4.3-33	Summary of Artifacts Recovered from Test Unit 2 at 31WA1991&1991**, by Zone and Level	4-139
Table 4.3-34	Summary of Artifacts Recovered from Test Unit 3 at 31WA1991&1991**, by Zone and Level	4-141
Table 4.3-35	Summary of Artifacts Recovered from Test Unit 6 at 31WA1991&1991**, by Zone and Level	4-145
Table 4.3-36	Summary of Artifacts Recovered from Test Unit 7 at 31WA1991&1991**, by Zone and Level	4-145

Table 4.3-37	Summary of Artifacts Recovered from Test Unit 9 at 31WA1991&1991**, by Zone and Level	. 4-148
Table 4.3-38	Summary of Artifacts Recovered from Test Unit 11 at 31WA1991&1991**, by Zone and Level	. 4-148
Table 4.3-39	Summary of Artifacts Recovered from 31WA1991&1991**	. 4-150
Table 4.3-40	Summary of Artifacts Recovered from 31WA1993**	. 4-157
Table 4.3-41	Segment O Survey Summary	. 4-160
Table 4.3-42	Summary of Artifacts Recovered from 31WA1995	. 4-164
Table 4.3-43	Segment P Survey Summary	. 4-165
Table 4.3-44	Summary of Artifacts Recovered from Test Unit 1 at 31WA1997&1997**, by Zone and Level	. 4-176
Table 4.3-45	Summary of Artifacts Recovered from Test Unit 2 at 31WA1997&1997**, by Zone and Level	. 4-179
Table 4.3-46	Summary of Artifacts Recovered from Test Unit 3 at 31WA1997&1997**, by Zone and Level	. 4-179
Table 4.3-47	Summary of Artifacts Recovered from Test Unit 5 and 6 at 31WA1997&1997**, by Zone and Level	. 4-181
Table 4.3-48	Summary of Artifacts Recovered from Test Unit 7 at 31WA1997&1997**, by Zone and Level	. 4-183
Table 4.3-49	Summary of Artifacts Recovered from Test Unit 4 at 31WA1997&1997**, by Zone and Level	. 4-184
Table 4.3-50	Summary of Artifacts Recovered from Test Unit 8 at 31WA1997&1997**, by Zone and Level	. 4-185
Table 4.3-51	Summary of Artifacts Recovered from Test Unit 9 at 31WA1997&1997** by Zone and Level	. 4-185
Table 4.3-52	Summary of Artifacts Recovered from Test Unit 10 at 31WA1997&1997**, by Zone and Level	. 4-186
Table 4.3-53	Summary of Artifacts Recovered from Test Unit 11 at 31WA1997&1997** by Zone and Level	. 4-186

Table 4.3-54	Summary of Artifacts Recovered from 31WA1997&1997**	4-189
Table 4.3-55	Segment Q Survey Summary	4-195
Table 4.3-56	Summary of Artifacts Recovered from Test Unit 1 at 31WA2000 by Zone and Level), 4-202
Table 4.3-57	Summary of Artifacts Recovered from 31WA2000	4-203
Table 4.3-58	Summary of Artifacts Recovered from 31WA2003	4-207
Table 4.3-59	Summary of Artifacts Recovered from 31WA2006&2006**	4-212
Table 4.3-60	Segment R Survey Summary	4-213
Table 4.3-61	Summary of Artifacts Recovered from 31WA2008&2008**	4-215
Table 4.3-62	Summary of Artifacts Recovered from Test Unit 2 at 31WA2009&2009**, by Zone and Level	4-225
Table 4.3-63	Summary of Artifacts Recovered from 31WA2009&2009**	4-227
Table 4.3-64	Segment S Survey Summary	4-227
Table 4.3-65	Summary of Artifacts Recovered from 31WA1186&1186**	4-234
Table 4.3-66	Summary of Artifacts Recovered from Test Unit 1 at 31WA1186&1186**, by Zone and Level	4-235
Table 4.3-67	Summary of Artifacts Recovered from Test Unit 2 at 31WA1186&1186**, by Zone and Level	4-238
Table 4.3-68	Segment T Survey Summary	4-239
Table 4.3-69	Summary of Artifacts Recovered from Test Unit 1 at 31JT500, by Zone and Level	4-246
Table 4.3-70	Summary of Artifacts Recovered from 31JT500	4-246
Table 4.3-71	Segment U Survey Summary	4-248
Table 4.3-72	Segment V Survey Summary	4-249
Table 4.3-73	Segment W Survey Summary	4-250

Table 4.3-74	Summary of Artifacts Recovered from 31WA2020	. 4-257
Table 4.3-75	Segment X Survey Summary	. 4-257
Table 4.3-76	Segment Y Survey Summary	. 4-262
Table 4.3-77	Segment AA Survey Summary	. 4-264
Table 4.3-78	Segment BB Survey Summary	. 4-265
Table 4.3-79	Segment CC Survey Summary	. 4-265
Table 4.3-80	Segment DD Survey Summary	. 4-268
Table 4.3-81	Summary of Artifacts Recovered from 31WA2032	. 4-273
Table 4.3-82	Segment EE Survey Summary	. 4-273
Table 4.3-83	Summary of Artifacts Recovered from Test Unit 1 at 31WA2034, by Zone and Level	. 4-275
Table 4.3-84	Summary of Artifacts Recovered from 31WA2034	. 4-280
Table 4.3-85	Summary of Artifacts Recovered from Test Unit 1 at 31WA2039&2039**, by Zone and Level	. 4-290
Table 4.3-86	Summary of Artifacts Recovered from Test Unit 2 at 31WA2039&2039**, by Zone and Level	. 4-291
Table 4.3-87	Summary of Artifacts Recovered from Test Unit 3 at 31WA2039&2039**, by Zone and Level	. 4-292
Table 4.3-88	Summary of Artifacts Recovered from 31WA2039&2039**	. 4-292
Table 4.3-89	Segment FF Survey Summary	. 4-293
Table 4.3-90	Summary of Artifacts Recovered from 31WA2044	. 4-299
Table 4.3-91	Segment GG Survey Summary	. 4-300
Table 4.3-92	Segment HH Survey Summary	. 4-306
Table 4.3-93	Segment II Survey Summary	. 4-307
Table 4.3-94	Summary of Artifacts Recovered from 31WA787&787**	. 4-311
Table 4.3-95	Summary of Artifacts Recovered from 31WA2048&2048**	16
---------------	---	----
Table 4.3-96	Summary of Artifacts Recovered from 31WA2049 4-3	19
Table 4.3-97	Segment JJ Survey Summary	23
Table 4.3-98	Summary of Artifacts Recovered from Test Unit 1 at 31WA2061&2061**, by Zone and Level	28
Table 4.3-99	Summary of Artifacts Recovered from Test Unit 2 at 31WA2061&2061**, by Zone and Level	28
Table 4.3-100	Summary of Artifacts Recovered from 31WA2061&2061**	29
Table 4.3-101	Summary of Artifacts Recovered from 31WA2062&2062**	31
Table 4.3-102	Summary of Artifacts Recovered from 31WA2063 4-33	33
Table 4.3-103	Segment KK Survey Summary 4-33	35
Table 4.3-104	Summary of Artifacts Recovered from 31WA2066&2066**	44
Table 4.3-105	Summary of Artifacts Recovered from 31WA2069 4-3:	50
Table 4.3-106	Segment LL Survey Summary 4-3:	54
Table 4.3-107	Summary of Artifacts Recovered from 31WA2074&2074**4-3	56
Table 4.3-108	Summary of Artifacts Recovered from 31WA663&663**4-33	80
Table 4.3-109	Segment MM Survey Summary 4-39	90
Table 4.3-110	Segment NN Survey Summary 4-39	91
Table 4.3-111	Summary of Artifacts Recovered from 31WA2081 4-39	94
Table 4.3-112	Summary of Artifacts Recovered from 31WA2082&2082** 4-4	04
Table 4.3-113	Segment OO Survey Summary 4-4	06
Table 4.3-114	Summary of Artifacts Recovered 31WA2085 Test Unit 1 by Zone/Level	11
Table 4.3-115	Summary of Artifacts Recovered 31WA2085 Test Unit 2 by Zone/Level	14

Table 4.3-116	Summary of Artifacts Recovered from 31WA2085
Table 4.3-117	Summary of Artifacts Recovered from 31WA2087 Test Unit 1 by Zone/Level
Table 4.3-118	Summary of Artifacts Recovered from 31WA2087 Test Unit 3 by Zone/Level
Table 4.3-119	Summary of Artifacts Recovered from 31WA2087 4-425
Table 4.3-120	Segment PP Survey Summary
Table 4.3-121	Summary of Artifacts Recovered from 31WA2089
Table 4.3-122	Segment QQ Survey Summary
Table 4.3-123	Segment RR Survey Summary
Table 4.3-124	Segment SS Survey Summary 4-453
Table 4.3-125	Segment TT Survey Summary
Table 5.1-1	Summary of the APE Characteristics and Survey Strategies
Table 5.1-2	Summary of Newly Recorded and Reevaluated Resources Located on Eroded Soils
Table 5.1-3	Summary of Newly Recorded and Reevaluated Resources by Landform

1.0 INTRODUCTION

1.1 PROJECT OVERVIEW AND COMPLIANCE

In 2017 Commonwealth Heritage Group, Inc. (Commonwealth), completed fieldwork, analysis, and reporting for the North Carolina Department of Transportation's (NCDOT's) archaeological survey and evaluation of the Preferred Alternative for the Complete 540 Triangle Expressway Southeast Extension (NC 540). The Complete 540 Triangle Expressway Southeast Extension is designated as three projects in the NCDOT 2016-2025 State Transportation Improvement Program (STIP): R-2721, R-2828, and R-2829. The project is federally funded. Together, the three STIP projects will combine to complete the 540 Outer Loop around the Raleigh metropolitan area. Figure 1.1-1 shows Complete 540's general location, and Figure 1.1-2 shows the three specific STIP project locations comprising the Preferred Alternative. STIP R-2721 extends from NC 540's current terminus at the NC 55 Bypass in Apex to the proposed new roadway's intersection with US 401 (Fayetteville Road), STIP R-2828 extends from there to the proposed intersection with I-40, and STIP R-2829 continues to terminate at the intersection with the US 64/264 Bypass. Figures 1.1-3 through 1.1-8 show general views of the APE.

Commonwealth's technical proposal for the project, dated June 15, 2016, was based upon NCDOT's Request for Proposal and Scope of Work (SOW) outlining proposed measures to carry out compliance with Section 106 of the National Historic Preservation Act of 1966 and the Advisory Council on Historic Preservation's regulations for compliance with Section 106, codified as 36 CFR Part 800. NCDOT's SOW was developed in consultation with the State Historic Preservation Office (HPO). Commonwealth was contracted by H.W. Lochner, Inc., to conduct the survey and evaluation based on the NCDOT SOW, which is presented in Appendix A. The investigations were conducted according to the Secretary of the Interior's *Standards and Guidelines for Historic Preservation Projects* (Federal Register, Vol. 48, No. 190, September 1983, P. 44716-44742, et seq.), and the resulting report meets the relevant guidelines issued by the North Carolina Office of State Archaeology (OSA) of the HPO.

The new roadway will consist of six lanes, with three 12-foot lanes in each direction of travel, separated by a 70-foot median, on new location. R-2721 is located entirely in Wake County while STIPs R-2828 and R-2829 are located mostly in Wake County with small portions in Johnston County. Proposed interchange locations include the NC 55 Bypass, Holly Springs Road, Bells Lake Road, US 401, Old Stage Road, NC 50, White Oak Road, I-40, US 70 Bypass, Old Baucom Road, Auburn Knightdale Road, Poole Road, and US 64/264 Bypass. For the archaeological investigation, the Area of Potential Effects (APE) corresponds to the overall study corridor for the three STIP projects, as generally described in the NCDOT SOW and specifically based upon a shapefile provided by the NCDOT project manager on June 8, 2016. The study corridor boundaries represent the maximum limits of potential ground-disturbing activity, and the APE is generally 1,000 ft in width along the alignments with wider areas for proposed interchanges. Table 1.1-1 shows the approximate mainline lengths and the overall area for the STIP project APEs and the total area for the project survey APE. Roughly 42 percent of the APE (based a previously unsurveyed portions) is comprised of eroded soils based on mapping from the United States Department of Agriculture Natural Resources Conservation Service Figure 1.1-1 General Location



Figure 1.1-1: NCDOT's General Location Map for the Complete 540 Triangle Expressway Southeast Extension Project in the Raleigh, North Carolina, Metropolitan Area. See area marked as study area.



Figure 1.1-2: STIP Projects Comprising the Preferred Alternative for Complete 540. Survey segments developed for the 2016-2016 archaeological survey also shown.



Figure 1.1-3: Shovel Tested Landform in STIP R-2721 (Segment A). Note that this is an example of a judgmental testing area on a landform mapped as having eroded soils.



Figure 1.1-4: Shovel Tested Landform in STIP R-2721 (Segment K).



Figure 1.1-5: Residential Development and Commercial Disturbance in STIP R-2828 (Segment L).



Figure 1.1-6: Field with High Ground Surface Visibility and Disturbance from Modern Housing Development in STIP R-2828 (Segment N).



Figure 1.1-7: Recent Erosion in Clear Cut Area in STIP R-2829 (Segment FF).



Figure 1.1-8: Active Floodplain Area Along Neuse River in STIP R-2829 (Segment LL).

(UDSA/NRCS), with the percent ranging from 23 percent to 50 percent based on the specific STIP project.

STIP	Approximate Length	Area	Area of Eroded	Percentage of
			Soils*	Eroded Soils*
R-2721	13,686.90 m (44,904.53 ft/	558.51 ha	263.18 ha	47%
	8.50 mi)	(1,380.10 acres)	(650.33 acres)	
R-2828	17,235.87 m (56,548.12 ft/	625.00 ha	144.94 ha	23%
	10.71 mi)	(1,544.41 acres)	(358.15 acres)	
R-2829	29,362.42 m (96,333.42	1,120.58 ha	564.88 ha	50%
	ft/18.24 mi)	(2,769.01 acres)	(1,395.84 acres)	
Combined	60,285.19 m (197,786.07	2,304.09 ha	972.99 ha	42%
	ft/37.46 mi)	(5,693.52 acres)	(2,404.32 acres)	

Table 1.1-1: Summary of the APEs for STIP R-2721, R-2828, and R-2829.

*excludes an eroded soils in 135.25/ha of previously surveyed area

1.2 PROJECT ORGANIZATION AND STAFFING

To facilitate fieldwork logistics, Commonwealth divided the overall APE into 45 segments (A through K for R-2721, L through V for R-2828, and W through Y and AA through TT for R-2829), with the segments beginning at the western terminus near Apex. Segment breaks were developed using natural and manmade features (roads and streams), and segment acreages vary depending on where logical breaks could be developed, with acreages ranging from approximately 39 acres to over 300 acres depending on the presence of larger interchange footprints (see Figure 1.1-2). Individual management summaries were submitted for each STIP project at the conclusion of fieldwork; this report presents the overall survey and evaluation results for the Complete 540 project with discussions by segment to convey field conditions at a more specific level. This report includes natural and cultural contexts for the project, the project methods, and specific discussions for all segments with discussions and recommendations for all documented archaeological resources in the overall APE. Appendix B is a complete listing of all recovered artifacts, and Appendix C contains representative shovel tests profiles to supplement information on site stratigraphy presented in the site descriptions.

The archaeological survey and evaluation work was conducted between December 1, 2016 and March 3, 2017, inclusive of revisits to key sites for follow-up investigations. The Commonwealth project manager and principal investigator was Susan E. Bamann, Ph.D., RPA. Joseph S. Stair, M.A., RPA, was the project archaeologist and senior field supervisor/logistics manager, and D. Allen Poyner was the GIS coordinator. Rhiannon Jones, M.A., RPA, and Jay Sander, M.A., were the field directors, and Amy C. Krull, M.A.; Matt Kinsey, M.A.; Nicholas Henderson, and Spencer Krul were the crew chiefs, with Amy Krull also serving as a field director during the final weeks of the project. The project field technicians included Sigmund Antecki; Nick Bacon; Devon Borgardt; Elisha Chaffee; Thomas Dows; Chris Eakes; Barbara Gegenbach, M.A.; Hubert Gibson, M.A.; Zach Hinckley; William Knowlden; Robert Kotlarek; Michell Gilman; Monte Lawton; Kirstyn Leque; Lloyd Blake Meador; Benjamin Royster; Amethyst Stever; and Maggie Utecht. Adam Archual (HNTB) also assisted in the field on several occasions. Joseph Stair, Rhiannon Jones, Jeroen van den Hurk, Ph.D., and Devon

Borgardt conducted background research for site analysis and historic context development. The artifacts from the investigation were processed and analyzed by Susan Bamann, Amanda Keeny Stamper, M.A.; Stephanie Byrd; Amy Krull; and Joseph Stair.

2.0 NATURAL SETTING

2.1 INTRODUCTION

The physiographic and geological features of any given region are known to be influencing factors for both precontact and historic settlement, and such features can be used to both identify areas with a higher probability to contain archaeological sites as well as to aid in analysis of any identified sites. For instance, the eastern portion of the current project area is located within the Piedmont physiographic region just northwest of the Fall Line area (Figure 2.1-1). The Fall Line is a transition zone that marks the division between the Piedmont region to the west and Atlantic Coastal Plain region to the east. The Fall Line roughly corresponds to the location of I-95, and is more specifically defined as "a topographic break between two regions of different lithology" (Thornbury 1965:93). It parallels the Atlantic Coast and separates hard, metamorphic rock of the Piedmont from the softer sedimentary rock and sediments of the Coastal Plain. Rivers and streams pass over more resistant crystalline rocks in this transition zone (Fenneman 1938; Thornbury 1965). The Fall Line is known in some areas for an abundance of quartz and quartzite, and also for quartzite cobble outcroppings (Egloff 1989:1). In North Carolina, the Fall Line is not an obvious topographic feature, but rather a five- to ten-mile-wide diffuse, or gradual transitional zone. This transitional zone is also generally known as an important area for settlement and various forms of cultural interaction (Thornbury 1965). Precontact populations, particularly during the Late Archaic period, were known for using materials from this area as raw materials for lithic tools. Numerous Late Archaic period sites, with lithic tools comprised of local raw materials, have been identified along river terraces in the region north of the current project area, across the Virginia border up to Washington, D.C. (Egloff 1989:1). The Fall Line region is also noted for the occurrence of rapids and fall along rivers; these areas have been favored for human habitation due to the prolific aquatic resources associated with such features (Seramur et al. 2007; South 2005).

Another important theme for the current project and its physical setting is the impact of historic soil erosion. The Southern Piedmont of the United States is generally a severely eroded area, and it has been estimated that the North Carolina Piedmont as a whole has lost at least 13.97 cm (5.5 in) of soil since it was settled by Europeans (Trimble 1974). Based on Erosive Land Use (ELU) practices, the Southern Piedmont has been divided into regions. Wake County has been placed into Region V-A (Mixed Farming Area). In the period from 1750 to 1810, ELU practices in this area increased steadily. From 1810 until 1860, these practices generally continued to increase slightly. While the erosion in this region was not as great as other regions to the south that were subject to intensive cotton cultivation, the soils were depleted and reverted to pasture or forest (Trimble 1974). The land use history leading to soil erosion is reflected in soil classifications and in the nature of deflated precontact archaeological sites in and around the current project area.

2.2 PHYSIOGRAPHY

The current project area is located almost completely in Wake County, and only a small area crosses into Johnston County to the east of I-40. The location of the project lies on the eastern edge of the Piedmont physiographic region, which is the non-mountainous portion of the older



Figure 2.1-1: Physiographic and Cultural Regions of North Carolina, from Phelps (1983:3). Note location of current project (red) and location of key comparative sites (blue) used later in discussion.

Appalachians that generally slopes from the mountains to the Coastal Plain (Fenneman 1938). The Piedmont is bounded to the east by the Fall Line, discussed above, and to the west by the mountains of the Blue Ridge Province. Generally, there is a sharp topographic break recognized along the boundary of the Piedmont with the Blue a Ridge province (Thornbury 1965). The Piedmont is characterized by deeply weathered bedrock and gently rolling topography. Structural control of drainage is usually absent, and the rivers cross belts of gneiss, schist, and slate without change of pattern (Fenneman 1938; Thornbury 1965). Soil erosion has long been a problem in the Piedmont, primarily due to the rolling hills (Fenneman 1938). It is apparent that the Piedmont has been exposed to chemical weathering for a long period of time because much of the region is covered by a deep layer of saprolitic soil (Fenneman 1938; Thornbury 1965).

2.3 GEOLOGY AND SOILS

In North Carolina, the Piedmont is divided into belts based on lithology and structure (King 1955). This project area overlies primarily the Raleigh and Eastern Slate Belts, which are composed of low grade metamorphic rocks and numerous intrusive bodies (NCGS 1988). These contain biotite, gneiss, schist, amphibolite, metamorphosed granitic rock, and felsic mica gneiss. The western edge of the project area also is underlain by the Carolina Slate Belt, in an area of this belt that is characterized as low grade metamorphic and meta-epiclastic rock. This area of the Carolina Slate Belt also contains a small portion of the Undivided Chatham Group made up of conglomerate, fanglomerate, sandstone, and mudstone. These belts and groups serve as the foundation for the first two STIP projects (R-2721 and R-2828). A significant portion of these first two STIP projects are also overlain with the Middendorf Formation, which is made up of sand, sandstone, and mudstone often mottled with clay balls and iron-cemented concretions. The third STIP project (R-2829), along with a portion of STIP R-2828, is underlain by Foliated to Massive Granitic Rock. Overlying this granitic foundation are small pockets of Terrace Deposits and Upland sediment comprised of gravel, clayey sand, sand, and minor iron-oxide-cemented sandstone (NCGS 1985). These pockets are more common in the Coastal Plain Province and represent the dynamic interaction between the Piedmont and Coastal Plain at the Fall Line.

The project APE contains six basic soil units associations in Wake County (2,052.41 ha/ 5,071.62 acres): Mayodan-Granville-Creedmor, Herndon-Georgeville, Cecil-Appling, Appling, Wagram-Norfolk, and Appling-Louisburg-Wedowee (Cawthorn 1970). In Johnston County the project APE (251.67 ha/621.90 acres) crosses three basic soil associations: Norfolk-Goldsboro-Rains, Wedowee, and Wehadkee-Bibb-Chewacla (Bliley 1994). Soils in the Mayodan-Granville-Creedmor unit are moderately well drained, with a silt loam surface soil and friable sandy clay loam to very firm clay subsoil; these soils are generally associated with uplands. Soils in the Herndon-Georgeville unit are well drained, with a loamy surface soil and firm clay and clay loam subsoil; these soils are generally associated with uplands. Soils in the Cecil-Appling unit are well drained, with a sandy loam, gravelly sandy loam, or fine sandy loam surface soil and a firm clay or clay loam subsoil; these soils are generally associated with gently sloping soils on ridges in the uplands. Soils in the Appling unit have the same characteristics as the previously mentioned soil association. Soils in the Wagram-Norfolk unit are somewhat excessively well drained to well drained, with a loamy sand (20 to 40 cm thick) surface soil and a friable sandy loam to sandy clay loam subsoil; these soils are generally associated with gently sloping soils on ridges and the sloping soils on the side of ridges in the uplands. Soils in the

Appling-Louisburg-Wedowee unit are somewhat excessively well drained to well drained, with a sandy loam, gravelly sandy loam, or fine sandy loam surface soil and a friable clay loam to sandy clay loam to firm clay subsoil; these soils are generally associated with gently sloping soils on broad ridges and the sloping to steep soils on the side of ridges in the uplands. Soils in the Norfolk-Goldsboro-Rains unit are well drained, moderately well drained, and poorly drained, with a sandy or loamy surface soil and predominately loamy subsoil; these soils are generally associated with moderately broad to broad ridges in the uplands. Soils in the Wedowee unit are well drained, with a loamy surface soil and predominately clayey subsoil; these soils are generally associated with gently to moderately sloping soils on moderately wide ridges and strongly sloping and moderately steep soils on hillsides in the uplands. Soils in the Wehadkee-Bibb-Chewacla unit are poorly to somewhat poorly drained, with a loamy surface soil and a loamy to loamy subsoil; these soils are generally associated with flood plains along major streams and creeks.

A more detailed list of the soils found within the APE is included in Table 2.3-1. Where these soils fall within areas that have not been previously surveyed for archaeological sites, roughly 42 percent (972.99 ha/2,404.32 acres) can be classified as eroded (moderately eroded, severely eroded). Erosion class for soils in Johnston County is not included in the soil names but was inferred from the soil description and/or based on being contiguous on a landform crossing the county division where the Wake County side is classified as moderately or severely eroded.

2.4 HYDROLOGY

Only the most western part of the project area between East Williams Street and the NC-55 Bypass in Segment A is located within the Cape Fear River Basin; the rest of the project area is located within the Neuse River Basin. The two main tributaries of the Cape Fear River are the Haw and Deep Rivers that converge in Chatham County and then empty out directly into the Atlantic Ocean (NCOEE 2017a). The Neuse River's main tributaries are Crabtree, Swift, and Contentnea Creeks and the Eno, Little, and Trent Rivers. Before the construction of the Falls Lake Reservoir Dam, the Neuse River flowed from the confluence of the Eno and Flat Rivers above Raleigh. As it reaches the coast the Neuse turns into a 40-mile-long tidal estuary that drains into the southern end of the Pamlico Sound (NCOEE 2017b). Almost all of the drainages in the project area feed into the Neuse River Basin and are characterized as small and narrow, V-shaped stream valleys that drain to the southeast. The current APE crosses the Neuse River near Auburn and crosses several of its tributaries including Middle Creek, Rocky Branch, Buffalo Creek, Swift Creek, and White Oak Creek.

Soil Code	Soil Name	Drainage Classification	General Soil Types	Associated Landforms	Average Depth
					to
					Subsoil
AaA	Altavista fine sandy loam,	Moderately	Fine sandy loam	Low stream terraces of	20 cm
	0 to 2 percent slopes,	well drained	sandy clay loam,	the Piedmont and	(8 in)
	occasionally flooded		sandy loam	Coastal Plain	

Table 2.3-1: Detailed List of Soils Within the Current APE.

Soil	Soil Name	Drainage	General Soil Types	Associated Landforms	Average
Code		Classification			Depth to
					Subsoil
AfB	Altavista fine sandy loam,	Moderately	Fine sandy loam	Low stream terraces of	20 cm
	0 to 6 percent slopes,	well drained	sandy clay loam,	the Piedmont and	(8 in)
	rarely flooded		clay loam, sandy	Coastal Plain	
			loam, coarse sandy		
AgB	Appling gravelly sandy	Well drained	Gravelly sandy	Broad, smooth inter-	33 cm
8-	loam, 2 to 6 percent		loam, clay loam,	stream divides in the	(13 in)
	slopes		clay	Piedmont uplands	· · · ·
AgB2	Appling gravelly sandy	Well drained	Gravelly sandy	Broad, smooth inter-	13 cm
	loam, 2 to 6 percent		loam, gravelly sandy	stream divides in the	(5 in)
	slopes, moderately eroded	XX 7 11 1 · 1	clay, clay loam, clay	Piedmont uplands	27
AgC	Appling gravelly sandy	Well drained	Gravelly sandy	Narrow side slopes in the Bigdmont unlands	27 cm (11 in)
	slopes		clay	the Pleamont uplands	(11 m)
AgC2	Appling gravelly sandy	Well drained	Gravelly sandy	Narrow side slopes in	13 cm
1.802	loam, 6 to 10 percent		loam, gravelly sandy	the Piedmont uplands	(5 in)
	slopes, moderately eroded		clay, clay loam, clay	1	× ,
AmB	Appling-Marlboro	Well drained	gravelly fine sandy	Upland interstream	25 cm
	complex, 1 to 6 percent		loam, sandy clay,	divides	(10 in)
	slopes		sandy clay loam,		
AnP	Appling sandy loam 2 to	Wall drainad	Clay loam	Broad smooth inter	36 om
Арь	6 percent slopes	wen uranieu	loam clay	stream divides in the	(14 in)
	o percent stopes		iouni, eiuy	Piedmont uplands	(1111)
ApB2	Appling sandy loam, 2 to	Well drained	Sandy loam, sandy	Broad, smooth inter-	13 cm
1	6 percent slopes,		clay, clay loam, clay	stream divides in the	(5 in)
	moderately eroded			Piedmont uplands	
ApC	Appling sandy loam, 6 to	Well drained	Sandy loam, clay	Narrow side slopes in	28 cm
A	10 percent slopes	Wall due he d	Ioam, clay	the Piedmont uplands	(11 in)
ApC2	Appling sandy loam, o to	well drained	clay clay loam, sandy	the Piedmont unlands	15 cm (5 in)
	moderately eroded		ciay, ciay ioani, ciay	the rection uplands	(5 11)
ApD	Appling sandy loam, 10	Well drained	Sandy loam, sandy	Narrow side slopes	13 cm
-	to 15 percent slopes		clay, clay loam, clay	bordering drainage-	(5 in)
				ways in the Piedmont	
4 D		XX 7 11 1 1 1	T ' 1 1	uplands	22
AsB	Appling fine sandy loam,	Well drained	Fine sandy loam,	Broad, smooth inter-	23 cm
	2 to 6 percent slopes		ciay ioani, ciay	Piedmont uplands	(9 m)
AsB2	Appling fine sandy loam.	Well drained	Fine sandy loam.	Broad, smooth inter-	13 cm
	2 to 6 percent slopes,		sandy clay, clay	stream divides in the	(5 in)
	moderately eroded		loam, clay	Piedmont uplands	
AsC	Appling fine sandy loam,	Well drained	Fine sandy loam,	Narrow side slopes in	23 cm
	6 to 10 percent slopes	XX 7 11 1 · · ·	clay loam, clay	the Piedmont uplands	(9 in)
AsC2	Appling fine sandy loam,	Well drained	Fine sandy loam,	Narrow side slopes in	13 cm
	o to 10 percent slopes,		sandy clay, clay	the Pleamont uplands	(3 IN)
АнА	Augusta fine sandy loam	Somewhat	Fine sandy loam	Low terraces	27 cm
1 1001 1	0 to 2 percent slopes.	poorly	clay loam, clay		(11 in)
	occasionally flooded	drained	J J		

Soil Code	Soil Name	Drainage Classification	General Soil Types	Associated Landforms	Average Depth
		0			to Subsoil
Bb	Bibb sandy loam, 0 to 2 percent slopes, frequently flooded	Poorly drained	Sandy loam, fine sandy loam, coarse sand, sand	Flood plains of streams, depressions and draws in the uplands	23 cm (9 in)
BuB	Buncombe loamy sand, 0 to 5 percent slopes, frequently flooded	Somewhat excessively drained	Sand, loamy sand	Floodplains of large streams	18 cm (7 in)
CeB	Cecil loam, 2 to 6 percent slopes	Well drained	Sandy loam, clay	Broad, smooth inter- stream divides	25 cm (10 in)
CeB2	Cecil sandy loam, 2 to 6 percent slopes, moderately eroded	Well drained	Sandy loam, clay loam, clay	Broad, smooth inter- stream divides in the Piedmont uplands	13 cm (5 in)
CeC	Cecil loam, 6 to 10 percent slopes	Well drained	Sandy loam, clay	Short to long side slopes in the Piedmont uplands	25 cm (10 in)
CeC2	Cecil sandy loam, 6 to 10 percent slopes, moderately eroded	Well drained	Sandy loam, clay loam, clay	Short to long side slopes in the Piedmont uplands	25 cm (10 in)
CeD	Cecil sandy loam, 10 to 15 percent slopes	Well drained	Sandy loam, clay loam, clay	Narrow side slopes bordering upland drainage-ways	20 cm (8 in)
CgB	Cecil gravelly sandy loam, 2 to 6 percent slopes	Well drained	Gravelly sandy loam, clay	Broad, smooth inter- stream divides in the Piedmont uplands	25 cm (10 in)
CgB2	Cecil gravelly sandy loam, 2 to 6 percent slopes, moderately eroded	Well drained	Gravelly sandy loam, gravelly clay loam	Broad inter-stream divides in the Piedmont uplands	13 cm (5 in)
CgC	Cecil gravelly sandy loam, 6 to 10 percent slopes	Well drained	Sandy loam, clay	Short to long side slopes in the Piedmont uplands	25 cm (10 in)
CgC2	Cecil gravelly sandy loam, 6 to 10 percent slopes, moderately eroded	Well drained	Gravelly sandy loam, gravelly clay loam, clay	Short to long side slopes in the Piedmont uplands	13 cm (5 in)
ClB3	Cecil clay loam, 2 to 6 percent slopes, severely eroded	Well drained	Clay loam, clay	Smooth interstream divides	11 cm (5 in)
CIC3	Cecil clay loam, 6 to 10 percent slopes, severely eroded	Well drained	Clay loam, clay	Narrow side slopes in the Piedmont uplands	11 cm (5 in)
CmA	Chewacla loam, 0 to 2 percent slopes, frequently flooded	Somewhat poorly drained	Sandy clay loam, clay loam	Floodplains of streams	20 cm (8 in)
CnA	Colfax sandy loam, 0 to 3 percent slopes	Somewhat poorly drained	Sandy loam, sandy clay loam, clay loam, silt loam	Heads of drainageways, footslopes, slight depressions of the Piedmont	32 cm (13 in)
CoA	Congaree fine sandy loam, 0 to 2 percent slopes, frequently flooded	Well drained	Fine sandy loam, silt clay loam	Floodplains of streams	20 cm (8 in)

Soil Code	Soil Name	Drainage Classification	General Soil Types	Associated Landforms	Average Depth to Subsoil
СоВ	Cowarts loamy sand, 2 to 6 percent slopes	Well drained	Loamy sand, sandy clay loam	Side slopes and ridge tops in the Coastal Plain uplands	15 cm (6 in)
CoC	Cowarts loamy sand, 6 to 10 percent slopes	Well drained	Loamy sand, sandy clay loam	Side slopes and ridge tops in the Coastal Plain uplands	15 cm (6 in)
СрА	Congaree silt loam, 0 to 2 percent slopes, frequently flooded	Well drained	Silt loam	Floodplains of streams	20 cm (8 in)
CrB2	Creedmoor sandy loam, 2 to 6 percent slopes, moderately eroded	Moderately well drained	Sandy loam, sandy clay loam, clay loam, clay	Broad, smooth inter- stream divides in the Piedmont uplands	13 cm (5 in)
CrC2	Creedmoor sandy loam, 6 to 10 percent slopes, moderately eroded	Moderately well drained	Sandy loam, sandy clay loam, clay loam, clay	Narrow side slopes in the Piedmont uplands	13 cm (5 in)
CrE	Creedmoor sandy loam, 10 to 20 percent slopes	Moderately well drained	Sandy loam, sandy clay loam, clay loam, clay	Narrow side slopes bordering upland drainageways of the Piedmont	13 cm (5 in)
CtB	Creedmoor silt loam, 2 to 6 percent slopes	Moderately well drained	Silt loam, silty clay loam, clay	Broad, smooth inter- stream divides in the Piedmont uplands	25 cm (10 in)
CtC	Creedmoor silt loam, 6 to 10 percent slopes	Moderately well drained	Silt loam, silty clay loam, clay	Broad, smooth inter- stream divides in the Piedmont uplands	28 cm (11 in)
DuB	Durham loamy sand, 2 to 6 percent slopes	Well drained	Loamy sand, sandy clay loam, clay loam	Broad, smooth inter- stream divides in the Piedmont uplands	36 cm (14 in)
DuC	Durham loamy sand, 6 to 10 percent slopes	Well drained	Loamy sand, sandy clay loam, clay loam	Narrow side slopes in the Piedmont uplands	28 cm (11 in)
EnB	Enon fine sandy loam, 2 to 8 percent slopes	Well drained	Sandy loam, sandy clay loam, clay, clay loam	Smooth interstream divides of the Piedmont uplands	22 cm (9 in)
EnB2	Enon fine sandy loam, 2 to 6 percent slopes, moderately eroded	Well drained	Fine sandy loam, sandy clay loam, clay loam, silty clay loam, clay	Smooth interstream divides of the Piedmont uplands	14 cm (6 in)
EnC	Enon fine sandy loam, 6 to 10 percent slopes	Well drained	Fine sandy loam, silty clay loam, clay, clay loam	Narrow side slopes of Piedmont uplands	22 cm (9 in)
EnC2	Enon fine sandy loam, 6 to 10 percent slopes, moderately eroded	Well drained	Fine sandy loam, sandy clay loam, clay, clay loam, silty clay loam	Narrow side slopes of Piedmont uplands	14 cm (6 in)
FaB	Faceville sandy loam, 2 to 6 percent slopes	Well drained	Sandy loam, clay loam, sandy clay	Broad, smooth interstream divides and stream terraces of the Coastal Plain uplands	36 cm (14 in)

Soil Code	Soil Name	Drainage Classification	General Soil Types	Associated Landforms	Average Depth
					to Subsoil
FaB2	Faceville sandy loam, 2 to	Well drained	Sandy loam, sandy	Broad, smooth	15 cm
	6 percent slopes,		clay loam, clay	interstream divides and	(6 in)
	moderately eroded		loam, sandy clay	stream terraces of the	
				Coastal Plain uplands	
FaC2	Faceville sandy loam, 6 to	Well drained	Sandy loam, sandy	Stream terraces and	15 cm
	10 percent slopes,		clay loam, clay	narrow side slopes in	(6 in)
	moderately eroded		loam, sandy clay	the Coastal Plain	
CoP2	Georgeville eilt loom 2 to	Wall drainad	Silt loom silty alay	uplands Smooth interstream	11.0m
Geb2	6 percent slopes	wen uranieu	loam clay	divides in the Piedmont	(5 in)
	moderately eroded		ioani, ciay	unlands	(5 11)
GeC	Georgeville silt loam, 6 to	Well drained	Silt loam, silty clay	Short to long side	13cm
000	10 percent slopes	vv on uruniou	loam. clay	slopes in the Piedmont	(5 in)
	1 1		, ,	uplands	× ,
GeC2	Georgeville silt loam, 6 to	Well drained	Silt loam, silty clay	Short to long side	11cm
	10 percent slopes,		loam, clay	slopes in the Piedmont	(5 in)
	moderately eroded			uplands	
GeD2	Georgeville silt loam, 10	Well drained	Silt loam, silty clay	Narrow side slopes	11cm
	to 15 percent slopes,		loam, clay	bordering upland	(5 in)
	moderately eroded			drainageways of the	
CaA	Coldshore condulosm 0	Moderately	Condy loom condy	Preamont Droad flats and slight	22.000
GOA	to 2 percent slopes	woll drained	clay loam	depressions in the	(13 in)
	to 2 percent slopes	wen uranieu		Coastal Plain unlands	(15 m)
HeC2	Helena sandy loam, 6 to	Moderately	Sandy loam, clay	Narrow side slopes in	13cm
11002	10 percent slopes,	well drained	loam	the Piedmont uplands	(5 in)
	moderately eroded			1	``´´
HrB	Herndon silt loam, 2 to 6	Well drained	Silt loam, silty clay	Smooth interstream	17 cm
	percent slopes		loam, silty clay	divides in the Piedmont	(7 in)
				uplands	
HrB2	Herndon silt loam, 2 to 6	Well drained	Silt loam, silty clay	Piedmont uplands	13cm
	percent slopes,		loam, silty clay		(5 in)
U.C.	moderately eroded	Wall due and	C:14 1	Chart aide alamas in the	15
HIC	herndon silt loam, 6 to 10	well drained	Shit loam, shity clay	Short side slopes in the Piedmont uplands	15 cm
HrC2	Herndon silt loam 6 to 10	Well drained	Silt loam silty clay	Short side slopes in the	(0 m) 13cm
11102	percent slopes	wen dramed	loam silty clay	Piedmont unlands	(5 in)
	moderately eroded			r iounione apranas	(0 111)
HrD2	Herndon silt loam, 10 to	Well drained	Silt loam, silty clay	Narrow side slopes	11cm
	15 percent slopes,		loam, silty clay	bordering upland	(5 in)
	moderately eroded			drainageways of the	
				Piedmont	
LoB	Louisburg loamy sand, 2	Somewhat	Loamy sand, sandy	Small ridges in the	18 cm
	to 6 percent slopes	excessively drained	loam	Piedmont uplands	(7 1n)
LoC	Louisburg loamy sand 6	Somewhat	Loamy sand sandy	Side slopes in the	15 cm
LUC	to 10 percent slopes	excessively	loam	Piedmont uplands	(6 in)
		drained			(0)
LoD	Louisburg loamy sand, 10	Somewhat	Loamy sand, sandy	Side slopes bordering	13cm
	to 15 percent slopes	excessively	loam	drainageways in the	(5 in)
		drained		Piedmont uplands	

Soil Code	Soil Name	Drainage Classification	General Soil Types	Associated Landforms	Average Depth
					to Subsoil
LwB	Louisburg-Wedowee	Somewhat	Loamy sand, sandy	Small ridges	17 cm
	complex, 2 to 6 percent slopes	excessively drained	loam,		(7 in)
LwC2	Louisburg-Wedowee	Somewhat	Loamy sand, sandy	Side slopes of medium	13cm
	complex, 6 to 10 percent	excessively	loam, sandy clay	length uplands	(5 in)
LvA	Lynchburg sandy loam 0	Somewhat	Sandy loam sandy	Depressions in Coastal	36 cm
Lyn	to 2 percent slopes	poorly drained	clay loam	Plain uplands	(18 in)
MdE2	Madison sandy loam, 15	Well drained	Sandy loam, clay	Narrow side slopes	13cm
	to 25 percent slopes,		loam, clay	bordering major	(5 in)
	moderately eroded			drainageways	
MeA	Mantachie sandy loam, 0	Somewhat	Sandy loam, silt	Depressions and draws	30 cm
	to 2 percent slopes, rarely	poorly	loam	of the Piedmont and	(12 in)
	flooded	drained		Coastal Plain uplands	
NkB	Nankin fine sandy loam, 2	Well drained	Fine sandy loam,	Coastal Plain uplands	15 cm
	to o percent slopes		clay loam		(0 11)
NoA	Norfolk loamy sand, 0 to	Well drained	Loamy sand, sandy	Broad, flat interstream	36 cm
	2 percent slopes		loam, sandy clay	divides in the Coastal Plain unlands	(14 in)
NoB	Norfolk loamy sand, 2 to	Well drained	Loamy sand, sandy	Broad, smooth	36 cm
	6 percent slopes		loam, sandy clay	interstream divides in	(14 in)
			loam	the Coastal Plain uplands	
NoB2	Norfolk loamy sand, 2 to	Well drained	Loamy sand, sandy	Broad, smooth	15 cm
	6 percent slopes,		loam, sandy clay	interstream divides in	(6 in)
	moderately eroded		loam	the Coastal Plain	
NoC	Norfolk loamy sand, 6 to	Well drained	Loamy sand, sandy	Narrow side slopes in	36 cm
	10 percent slopes		loam, sandy clay	the Coastal Plain	(14 in)
			loam	uplands	
NoC2	Norfolk loamy sand, 6 to	Well drained	Loamy sand, sandy	Narrow side slopes in	13cm
	no percent slopes,		loam, sandy clay	uplands	(5 m)
OrB	Orangeburg loamy sand.	Well drained	Loamy sand, sandy	Broad, smooth	36 cm
-	2 to 6 percent slopes		loam, sandy clay	interstream divides in	(14 in)
			loam	the Coastal Plain	
0.02		XX 7 11 1 1 1	x 1 1	uplands	10
OrC2	Orangeburg loamy sand, 6 to 10 percent slopes	well drained	Loamy sand, sandy	the Coastal Plain	18 cm (7 in)
	moderately eroded		loam	uplands	(7 11)
PaF	Pacolet sandy loam, 15 to	Well drained	Sandy loam, , clay	Hillslopes in the	10 cm
	45 percent slopes		loam	Piedmont	(4 in)
PcE3	Pacolet clay loam, 10 to	Well drained	Clay loam, clay,	Hillslopes in the	10 cm
	20 percent slopes,		sandy loam	Piedmont	(4 in)
PgF	Pacolet-Gullied land	Well drained	clay loam, clay.	Hillslopes in the	10 cm
6	complex, 4 to 25 percent		sandy clay loam,	Piedmont	(4 in)
	slopes		sandy loam		

Soil Code	Soil Name	Drainage Classification	General Soil Types	Associated Landforms	Average Depth to
					Subsoil
PsA	Plummer and Osier soils,	Poorly	Sand, sandy clay	Coastal Plain upland	Variable
	0 to 2 percent slopes	drained	loam, sandy loam, loamy sand, sand	depressions and floodplains	
Pt	Pits	N/A	Sand	Areas altered by excavation	N/A
RaA	Rains fine sandy loam, 0 to 2 percent slopes, Southern Coastal Plain	Poorly drained	Fine sandy loam, sandy loam, clay loam	Coastal Plain upland depressions	127 cm (50 in)
RnF	Rion sandy loam, 15 to 40 percent slopes	Well drained	Sandy loam, sandy clay loam	Gently sloping to very steep areas of the Piedmont uplands	20 cm (8 in)
RoA	Roanoke loam, 0 to 2 percent slopes, occasionally flooded	Poorly drained	Fine sandy loam, clay, clay loam	Low stream terraces	33 cm (13 in)
То	Tomotley sandy loam, 0 to 2 percent slopes, rarely flooded	Poorly drained	Fine sandy loam, sandy clay loam, sandy loam, loamy sand	Coastal Plain terraces	18 cm (7 in)
UcC	Uchee loamy coarse sand, 6 to 12 percent slopes	Well drained	Loamy coarse sand, sandy clay loam	Side slopes and upland areas of the Coastal Plain	25 cm (10 in)
UdD	Udorthents loamy, 0 to 15 percent slopes	Well drained to moderately well drained	Variable	Areas altered by excavation or covered by earthy fill	Variable
VaB2	Vance sandy loam, 2 to 6 percent slopes, moderately eroded	Well drained	Sandy loam, clay, sandy clay	Smooth interstream divides in the Piedmont uplands	14 cm (6 in)
VaC2	Vance sandy loam, 6 to 10 percent slopes, moderately eroded	Well drained	Sandy loam, sandy clay, clay	Narrow side slopes in the Piedmont uplands	13cm (5 in)
WaA	Wagram loamy sand, 0 to 2 percent slopes	Somewhat excessively drained	Loamy sand, sandy loam, sandy clay loam	Broad, flat interstream divides in the Coastal Plain uplands	76 cm (30 in)
WaB	Wagram loamy sand, 0 to 6 percent slopes	Somewhat excessively drained	Loamy sand, sandy loam, sandy clay loam	Broad, smooth interstream divides in the Coastal Plain uplands	76 cm (30 in)
WaC	Wagram loamy sand, 6 to 10 percent slopes	Somewhat excessively drained	Loamy sand, sandy loam, sandy clay loam	Narrow side slopes in the Coastal Plain uplands	76 cm (30 in)
WgA	Wagram-Troup sands, 0 to 4 percent slopes	Somewhat excessively drained	Sand, sandy loam, sandy clay loam, clay loam	Coastal Plain uplands	102 cm (40 in)
WhA	Warne fine sandy loam, 0 to 2 percent slopes, occasionally flooded	Somewhat poorly drained	Loam, clay loam, clay	Low stream terraces along streams and rivers in the Piedmont and Coastal Plain	10 cm (4 in)
WkE	Wake-Wateree complex, 10 to 25 percent slopes, very rocky	Well-drained to somewhat excessively drained	Loamy sand, gravelly loamy sand, sandy loam	Side slopes bordering drainageways in the Piedmont uplands	11 cm (5 in)

Soil	Soil Name	Drainage	General Soil Types	Associated Landforms	Average
Code		Classification			Depth to
					Subsoil
WmB	Wedowee sandy loam, 2	Well drained	Sandy loam, sandy	Smooth interstream	23 cm
	to 6 percent slopes		clay loam, clay loam	divides in the Piedmont	(9 in)
W.D2	W. 1	XX7.11.1	C 1 1 1	uplands	12
WmB2	to 6 percent slopes	well drained	Sandy loam, sandy	Smooth interstream	13 cm (5 in)
	moderately eroded		ciay ioani, ciay ioani	uplands	(5 m)
WmC	Wedowee sandy loam, 6	Well drained	Sandy loam, sandy	Side slopes in the	20 cm
	to 10 percent slopes		clay loam, clay loam	Piedmont uplands	(8 in)
WmC2	Wedowee sandy loam, 6	Well drained	Sandy loam, sandy	Side slopes in the	13 cm
	to 10 percent slopes,		clay loam, clay loam	Piedmont uplands	(5 in)
	moderately eroded				
WmD2	Wedowee sandy loam, 10	Well drained	Sandy loam, sandy	Narrow side slopes	11 cm
	to 15 percent slopes,		clay loam, clay loam	drainageways of the	(5 1n)
	moderatery croded			Piedmont	
WmE	Wedowee sandy loam, 15	Well drained	Sandy loam, sandy	Narrow side slopes	18 cm
	to 25 percent slopes		clay loam, clay loam	bordering major	(7 in)
				Piedmont upland	
				drainageways	
WnA	Wehadkee silt loam, 0 to	Poorly	Silt loam, sandy	Floodplains of streams	19 cm
	2 percent slopes,	drained	loam, silty clay		(8 in)
	frequently flooded		loam		
WoA	Wehadkee and Bibb soils.	Poorly	Sandy loam. fine	Flood plains of	20 cm
	0 to 2 percent slopes,	drained	sandy loam, coarse	streams, depressions	(8 in)
	frequently flooded		sand, sand	and draws in the	
				uplands	
WoB	Wedowee sandy loam, 2	Well drained	Sandy loam, clay	Interstream divides in	18 cm
	to 8 percent slopes		loam, clay, clay	the Piedmont uplands	(/ 1n)
			loam		
WoD	Wedowee sandy loam, 8	Well drained	Sandy loam, clay	Side slopes in the	18 cm
	to 15 percent slopes		loam, clay, sandy	Piedmont uplands	(7 in)
			clay loam	-	
Wt	Wehadkee loam, 0 to 2	Poorly	Loam, clay loam	Recent alluvium in	18 cm
	percent slopes, frequently	drained		floodplains of streams	(7 in)
WwC	Ilooded Willog loam 2 to 10	Wall drainad	Sandy loam silt	of the Piedmont	10 am
wwc	nercent slopes	wen uranieu	loam clay loam	slopes in the Piedmont	(8 in)
	percent stopes		iouni, etay iouni	uplands	(0 11)
WwE	Wilkes loam, 10 to 20	Well drained	Sandy loam, silt	Side slopes bordering	17 cm
	percent slopes		loam, clay loam	Piedmont upland	(7 in)
				drainageways	
WxE	Wilkes cobbly loam, 15 to	Well drained	Stony sandy loam,	Side slopes bordering	20 cm
	25 percent slopes, very		sandy loam, clay	major Piedmont upland	(8 in)
W/s7 A	Stony Worsham sandy loom 0	Poorly	IOam Sandy loam silty	Heads of drains courses	23 om
w yA	to 3 percent slopes	drained	clay loam sandy	foot slopes and slight	(9 in)
	to 5 percent stopes	aramea	clay	depressions in the	())
				Piedmont uplands	

2.5 VEGETATION

Although most of the Piedmont and the region around the Fall Line feature Oak-Pine or Oak-Hickory-Pine forest, parts of the Piedmont are or were covered by the Oak-Chestnut Forest (Braun 1950). However, approximately 10,000 years ago the area was covered by a Mixed Conifer-Northern Hardwoods forest type (Delcourt and Delcourt 1981, 1985). In general STIP project R-2721 had the least amount of farmland and was for the most part forested if not developed. STIP project R-2828 had the most farmland but was wooded in the non-developed areas. STIP project R2829 was much longer than the other two, and its southern half had a mix of farmland and woods. As the northern half of the last STIP project approaches Knightdale, there is increased frequency of modern development. In the rest of the project area modern development was concentrated along current roads that intersect the APE.

3.0 CULTURAL OVERVIEW

3.1 PRECONTACT BACKGROUND

3.1.1 Paleoindian Period

Native American occupation of eastern North America dates to at least 12.8 to 13.1 thousand years ago, the conventional temporal boundary associated with the Clovis tradition (Anderson et al. 2014; Waters et al. 2011). The evidence for occupations at this time includes fluted projectile points (i.e., the Clovis type) (Griffin 1967; Justice 1987). These points are generally scarce and often occur as isolated finds in disturbed surface contexts. Geographic concentrations of fluted points, including the Clovis type and related types such as Cumberland, occur in the eastern half of the United States. At least 444 fluted projectile points have been reported from North Carolina (Anderson and Faught 1998; Anderson et al. 2010). Other Paleoindian projectile point types found in North Carolina are Redstone and Hardaway-Dalton (Daniel 2006). The points were used in the context of a mobile subsistence pattern based upon hunting and gathering in a boreal forest environment.

Evidence for much earlier New World lithic industries suggests that the makers of fluted points may represent relatively late migrations to the New World. Alternatively, the distinct fluted point technology may have developed within the New World in the context of Late Pleistocene populations established prior to the Clovis temporal boundary (Anderson and Faught 1998; Goebel et al. 2008; Meltzer 1989; Waters et al. 2011). The Cactus Hill site in southeastern Virginia has produced lithic artifacts (prismatic blades, polyhedral cores, and bifaces) from sandy deposits below intact Clovis horizons (McAvoy and McAvoy 1997:179-180). Radiocarbon dating suggests that the sub-Clovis material may date to as early as 17,000 radiocarbon years before present (RCYBP), which is significantly earlier than the Clovis temporal boundary (Goodyear 2006; McAvoy and McAvoy 1997:179-180). This stratified site is situated on a sand dune along the Nottoway River. Stratification was the result of relatively steady aeolian sand deposition throughout the occupation of the site (McAvoy and McAvoy 1997:8-10; Wagner and McAvoy 2004). The Topper site, located in the Piedmont of South Carolina, has also been discussed as a possible site of pre-Clovis occupations (Goodyear 1999, 2000, 2006), but the potential evidence including concentrations of unusual microlithic artifacts reflecting a "smash-core" technology is much less well understood. The SV-2 site, located in the Saltville Valley (Ridge and Valley province) of southwestern Virginia, has yielded a distinctive concentration of proboscidean bone in association with a possible bone tool yielding a collagen date of 14,510±80 RCYBP (Goodyear 2006; McDonald 2000). In the western United States, recent work at the Debra L. Friedkin site, Texas, is providing conclusive evidence for human occupation dating to at least 15.5 thousand years ago. The site has yielded over 15,000 artifacts defining the pre-Clovis Buttermilk Creek Complex; this assemblage includes bifaces, blades, bladelets, and edge-modified tools and could be ancestral to the recognized Clovis tool kit (Waters et al. 2011:1602). Programs for the identification and testing for appropriate alluvial and dune landforms with Pleistocene-aged deposits are now considered key in developing a better understanding of when, how, and why North America was populated. In eroded landscapes such as those found in the current project APE, expectations for intact Paleoindian

sites are low, especially given the dominance of upland landforms effects of plowing and logging on such landforms.

The most important excavated North Carolina site yielding evidence of Paleoindian occupation is the Hardaway site (31ST4), which was found in an alluvial setting. This site is located in the Uwharrie Mountains area on the west bank of the Yadkin River (Coe 1964:56; Ward and Davis 1999:38). Spanning the boundaries of the northwestern, central, and southern Piedmont archaeological regions, this area includes important sources of metavolcanic stone used throughout the state during the various precontact periods (Daniel 1998, Ward and Davis 1999:38). Three fluted points, mentioned in passing by Coe (1964:120) and recently reexamined by Daniel (2006), were recovered from surface contexts at Hardaway. These have been classified as the Clovis or Redstone types, which, respectively, represent the early and middle Paleoindian subperiods in North Carolina (Daniel 2006:108). Hardaway-Dalton points represent late Paleoindian to Early Archaic occupation of the site (Daniel 1998). Investigations of deposits at the Hardaway site form the basis for the Paleoindian and Early Archaic sequences defined by Coe (1964) for the Carolina Piedmont. Later investigations at sites along the Haw River in Chatham County served to reconfirm the cultural-temporal framework (Claggett and Cable 1982).

Point types such as Hardaway Side-Notched mark the transition to the Early Archaic period (ca. 8000 B.C.) (Daniel 1998:52; Justice 1987:43). These points have been recovered from stratified Paleoindian to Archaic contexts in eastern North America (Daniel 1998) and have characteristics that are more typical of the side- and corner-notched traditions of the Early Archaic period (Ward and Davis 1999:45).

3.1.2 Archaic Period

The Archaic period (8000-1000 B.C.) was a time of climatic change. A shift from boreal forests to northern hardwoods occurred around the time of the Early Archaic period (8000-6000 B.C.). During the early part of this time, a cool, moist climate prompted the expansion of species-rich Mixed Hardwood Forest in the eastern United States (Delcourt and Delcourt 1981; Delcourt and Delcourt 1985). During the drier and warmer Hypsithermal or Altithermal phase, which roughly corresponds to the Middle Archaic period (6000-3000 B.C.; Ward and Davis 1999:63), the Oak-Chestnut Forest became dominant in the central and southern Appalachians, oak and hickory were replaced by southern pine on the Coastal Plain, and the Oak-Hickory-Southern Pine Forest covered the Piedmont (Delcourt and Delcourt 1981; Delcourt and Delcourt 1985). These changes were accompanied by a gradual increase in population density, as concluded in a recent study of statewide projectile point distribution and frequency trends (McReynolds 2005). It is generally thought that the Archaic period began with hunter-gatherers spending most of their time in small, scattered bands. By the end of the period, larger groups were centered on more restricted territories with rich food and raw material resources (Ward and Davis 1999:75).

The Early Archaic Palmer phase (ca. 8000-7000 B.C.) is typified by a small corner-notched blade with a straight, ground base and pronounced serrations. During the Early Archaic Kirk phase (ca. 7000-6000 B.C.), the points increased in size and basal grinding declined (Coe 1964:67-70; Ward and Davis 1999:53-55). In addition to analysis of size and basal grinding,

Daniel (1998:59) has suggested that the tang length-to-width ratio is a useful sorting criterion in differentiating Palmer Corner Notched and Kirk Corner Notched points, with Palmer points having the stubbier appearance. Broad-stemmed, deeply serrated points (Kirk Serrated and Kirk Stemmed) gradually replaced the earlier corner-notched style. The use of hafted end scrapers increased during the Early Archaic period, and other formal tools include gravers, drills, and perforators (Coe 1964; Davis and Daniel 1990; Ward and Davis 1999:55).

During excavations at Icehouse Bottom in Tennessee, a bifurcated stem point tradition was stratigraphically isolated between the Early Archaic Kirk and the Middle Archaic Stanly traditions (Chapman 1977:147). No major shift in the artifact assemblage was observed except for the presence of St. Albans Side-Notched and LeCroy Bifurcated Stem projectile points. The bifurcate tradition was not identified at the Hardaway site, though investigations along the Haw River in Chatham County have confirmed its stratigraphic placement and suggest that deposits date to after 7000 B.C. (Claggett and Cable 1982:775). Chapman's work in Tennessee also provided direct evidence for the production and use of textiles in the Early Archaic period. The evidence was in the form of basketry and woven fiber bag impressions from a prepared clay hearth. The context in which they were found can be firmly dated to the Early Archaic period (Chapman 1977:108-110).

The Middle Archaic Stanly phase (ca. 6000-5500 B.C.) appears to have developed out of the preceding phases and is the earliest clearly documented occupation at the stratified Doerschuk site (31MG22) in Montgomery County (Coe 1964:122; Ward and Davis 1999:61). Stanly Stemmed points have a broad Christmas tree-shaped blade and a square stem with basal notching. The major difference in the artifact assemblage seems to be the appearance of polished stone atlatl weights. Formal chipped stone tools, such as scrapers, are infrequently recovered, and expedient flake tools were apparently sufficient for most processing tasks (Ward and Davis 1999:63).

The Morrow Mountain and Guilford phases also appear during the Middle Archaic period. Coe (1964:122-123) considers these phases to be without local technological precedent and views them as western intrusive horizons. Morrow Mountain I and II Stemmed projectile points are relatively small with a short, tapering stem. Based on data from the Doerschuck site, Davis and Daniel (1990) date these points to approximately 5500-5000 B.C. The analysis of material from the Haw River sites suggests that the Morrow Mountain types may actually represent the continuation of the stemmed point tradition (Claggett and Cable 1982). Claggett and Cable (1982:485) note a trend toward contracting stems beginning with the Stanly tradition and "culminating with the extreme stem contraction that characterizes the Morrow Mountain cluster."

Guilford projectile points, which represent "a potentially anomalous situation in the overall Piedmont sequence" (Claggett and Cable 1982:39), are found in two forms: a lanceolate variety, the most commonly recovered, and a form with a weakly developed stem. According to Davis and Daniel (1990), these date to about 5000-4000 B.C. The Guilford type has been described as "a thick, lanceolate bifacial cutting or piercing implement that apparently interrupts the Archaic development trend from notched to stemmed points" (Claggett and Cable 1982:39). The apparent deviation in development is all the more noteworthy when the Late Archaic Savannah

River projectile point, which represents clear evidence of a return to the Archaic developmental continuum, is considered. A more recent study, however, has used mixed deposits and transitional forms from the Lowder's Ferry site (31ST7) in Stanly County to question the intrusive interpretation for Guilford and Morrow Mountain points (Drye 1997). Even more recently, the recovery of Savannah River, Morrow Mountain, and Guilford points from the same undisturbed strata at a site in Randolph County (31RD1166) provides evidence of cultural continuity during the Archaic period (Lautzenheiser et al. 1999:62).

The Halifax phase was identified from the Gaston site (31HX7) on the Roanoke River, but did not appear at either the Hardaway or Doerschuk sites (Coe 1964:109-110). The Halifax point type, usually made of vein quartz or quartzite, is a slender blade with shallow side notches. The base and side notches were usually ground. Two Halifax Side-Notched projectile points were recovered in the Central Piedmont region from the Middle to Late Archaic zone at 31CH29 (Claggett and Cable 1982:533). At the Gaston site, the Halifax zone occurs above Guilford material (Coe 1964:123), suggesting a late Middle Archaic to early Late Archaic temporal affiliation.

The Late Archaic period is marked by the Savannah River phase (3000 to 1000 B.C.). During this time, there is evidence for larger sites containing steatite bowls, stone mortars, grooved axes, atlatl weights, bifaces, scrapers, drills, prepared hearths, and human burials. This evidence suggests a more settled lifestyle (Ward 1983; Ward and Davis 1999:75). The Savannah River projectile point is a large, heavy, triangular blade with a broad stem (Coe 1964:44). Oliver (1985) has noted that the smaller variant, the Small Savannah River Stemmed, serves as a temporal marker for the later part of the Savannah River phase. The small variant has been recovered from upper Savannah River zones at sites such as Doerschuk and Gaston. Savannah River phase base camps in the North Carolina Piedmont occur along major streams and indirectly reflect the exploitation of fish, turtles, migratory water fowl, and freshwater mussels. Smaller camps found in the interstream uplands were part of the seasonal hunter-gatherer lifestyle (Ward and Davis 1999:67).

The earliest ceramics recorded in the Carolinas are fiber-tempered sherds made as early as 2500 B.C. These Stallings series ceramics have been recovered from South Carolina and the Southern Coastal Plain region of North Carolina and reflect larger developments along the south Atlantic coast (Phelps 1983; Ward and Davis 1999:76). Sand-tempered ceramics known as Thom's Creek ware were made in the same area by approximately 1850 B.C. (Eastman and Lautzenheiser 1993; Ward and Davis 1999:76). Both wares are roughly contemporary with steatite-tempered Marcey Creek ware, which was made in the Mid-Atlantic tidewater area (Ward and Davis 1999:77).

Oliver (1985) has identified a projectile point type, Gypsy Stemmed, which appears to represent the transition between the preceramic Archaic tradition and the Woodland period. He suggests that this small, square- to rectangular-stemmed type represents the continuation of the Piedmont tradition of stemmed point types into this transitional time. The Gypsy Stemmed type is identified within the earliest ceramic-bearing zones at the Doerschuk and Gaston sites and is associated with large triangular points and cord- and fabric-impressed ceramics (Oliver 1985).

3.1.3 Woodland Period

It is during the Woodland period (1000 B.C.-A.D. 1650) that the beginnings of regional differences are clearly noted (Ward and Davis 1999). Hallmarks of the Woodland period include more extensive ceramic manufacture, semisedentary villages, and the intensification and diversification of horticulture (Ward and Davis 1999:76-77). Cultures of the North Carolina Piedmont were somewhat isolated from developments throughout the greater Southeast. Ward and Davis (1999:78) remark that this area was not heavily influenced by more elaborate and influential societies of the Eastern Woodlands such as the Middle Woodland period Hopewell, while Southeastern groups characterized as Mississippian chiefdoms were only influential along the North Carolina Piedmont's southern edge.

In the Piedmont, the earliest expression of the Woodland tradition is the Early Woodland Badin phase beginning by about 500 B.C. (Ward and Davis 1999:80-83). Badin ceramics were identified above Savannah River phase material at the Doerschuk site. These ceramics are sand tempered with a hard paste and cord-marked and fabric-impressed surfaces (Coe 1964:27-29). Badin Crude Triangular projectile points were also recovered at Doerschuk (Coe 1964:45). These points are crudely flaked and represent a departure from the stemmed tradition of the Archaic (Ward and Davis 1999:80). A recent analysis of statewide projectile point frequency trends concludes that there may have been a sharp decline in population during the Early Woodland period (McReynolds 2005).

The Middle Woodland Yadkin phase (500 B.C. to A.D. 800) was also defined at the Doerschuk site (Coe 1964; Ward and Davis 1999:83). The Yadkin ceramic series is thought to follow the Early Woodland Badin series, and differs most prominently in the use of crushed quartz temper instead of fine sand and the addition of new surface treatments. Questions about the Badin to Yadkin ceramic sequence, however, have been suggested by recent research. It is thus "unclear as to whether Badin ceramics predate Yadkin in all areas of the Piedmont" (Ward and Davis 1999:86). Furthermore, it remains possible that Yadkin ceramics represent the earliest identified series in specific areas (Ward and Davis 1999:86).

Exterior surfaces of Yadkin series ceramics can be cord marked, fabric impressed (wicker fabric), check stamped, or simple stamped (Eastman and Lautzenheiser 1993; Ward and Davis 1999:83). Vessel forms include bowls and semiconoidal jars. Vessel interiors are carefully smoothed, with some irregularities due to large quartz fragments (Coe 1964:30-33; Eastman and Lautzenheiser 1993). Yadkin ceramics are occasionally tempered with clay particles in addition to the crushed quartz temper. This may constitute evidence for influences from the southern Coastal Plain region where the clay-tempered Hanover series is common (Coe 1964:30; Ward and Davis 1999:84). The Yadkin Large Triangular projectile point is a well-made triangular point with a concave base (Coe 1964:45; Davis and Daniel 1990).

The Uwharrie phase (A.D. 800-1200) in the central, north-central, and northwestern Piedmont regions represents a late Middle Woodland/early Late Woodland outgrowth of the Badin and Yadkin traditions (Coe 1952; Ward and Davis 1999:100-101). Uwharrie series ceramics are marked by abundant fragments of crushed quartz temper, scraped interiors, and the addition of net-impressed surface finishes (Bamann and Bradley 2009; Ward and Davis 1999:101). Portions

of an Uwharrie vessel, recovered from a feature at the Donnaha site (31YD9) in northern Yadkin County, were found in association with charcoal fragments that provided an uncorrected radiocarbon date of A.D. 1480 (Woodall 1984:21). For the earlier end of the phase, a calibrated date of A.D. 880-1020 was obtained from a nutshell recovered within a paleosol deposit with intact Uwharrie ceramic concentrations and partially reconstructable vessels (Bamann and Bradley 2009). Uwharrie Triangular projectile points are medium in size, thin and well-made, and have a straight to slightly incurvate base (Davis and Daniel 1990). Uwharrie subsistence involved mixed wild food utilization and garden crops including corn. Large storage pits found on Uwharrie phase sites may reflect the importance of crop storage (Ward and Davis 1999:100-101).

At various times after A.D. 1000, three separate Late Woodland archaeological complexes emerge from the Uwharrie phase. For this same time, Ward and Davis (1999:98-99) refer to the emergence of the "Piedmont Village Tradition." This tradition is characterized by population consolidation, an increased emphasis on crop cultivation, a mix of more permanent villages and scattered hamlets, an increase in conflict and hostility, and fortification of settlements (Ward and Davis 1999:98-99). The separate archaeological complexes, the Haw River phase, the Dan River phase, and the Donnaha phase, appear to represent regional variations on this Piedmont Village Tradition theme.

Archaeological work conducted along the Eno and Haw rivers in the Central Piedmont, the specific area of the current project, resulted in definition of the Late Woodland Haw River phase (A.D. 1000- 1400). Haw River phase peoples may have been ancestral to the Siouan-speaking Sissipahaw documented during the Contact period. Pottery from the first half of the Haw River phase is similar to that of the Uwharrie series. Pottery from the second half of the phase, however, is classified as belonging to the Haw River series (Ward and Davis 1999:103-105). These ceramics are predominantly net-impressed, and vessels feature more constricted necks and numerous instances of rim and neck decoration. Temper is variable, consisting of combinations of crushed quartz, crushed feldspar, and coarse sand (Ward and Davis 1993:408). Caraway Triangular projectile points are characteristic of this and other Late Woodland phases of the Piedmont. These have a straight or incurvate base and often vary in quality of workmanship (Davis and Daniel 1990). Features at Haw River phase sites include cylindrical storage pits and flexed inhumation burials without grave goods. Refuse accumulations in the abandoned storage pits include animal bone and the charred remains of maize kernels, beans, squash seeds, acorn, and hickory nuts (Ward and Davis 1999:104-105).

The Late Woodland Dan River phase (A.D. 1000-1450) was identified in the northern Piedmont region along the upper Dan River, and people of this phase were probably ancestors of the Contact period Siouan-speaking Sara Indians (Ward and Davis 1999:106). Dan River series ceramics may contain both crushed quartz and coarse river sand inclusions. Exterior surfaces are primarily net-impressed, and interior surface may be heavily scraped. Cooking vessels have constricted necks, flaring rims, and may be decorated with notches, incisions, or punctates (Ward and Davis 1993:419). Early Dan River sites often contain large storage pit features with secondary refuse deposits. Later Dan River sites reflect dramatic increases in settlement size and were located on wide alluvial terraces. Sites such as Lower Saratown appear to represent stockaded settlements (Ward and Davis 1999:106).

Excavations at the Donnaha site in the Great Bend area of the Yadkin River valley resulted in identification of the Late Woodland Donnaha phase (A.D. 1000-1450) for the northwestern Piedmont (Ward and Davis 1999:109-111; Woodall 1984). The ceramics from Donnaha are closely related to Dan River phase ceramics and exhibit a trend towards increased use of fine to medium sand temper by the end of the occupation period. Dan River vessels from the site are cord-marked, net-impressed, and fabric-impressed, with increased instances of net-impression toward the end of the site's occupation. The Donnaha site is located on a broad floodplain that supported maize cultivation. Faunal remains from the site, many used for bone and antler tools, attest to the importance of wild foods (Woodall 1984).

In the central Piedmont, again the specific area for the current project, the Hillsboro phase (A.D. 1400-1600) follows the Haw River phase (Ward and Davis 1999:112). Evidence from the Hillsboro phase Wall site on the Eno River suggests a palisaded village of 100 to 150 people with a 20 year occupation span (Ward and Davis 1993:410). Hillsboro phase pottery belongs to the Hillsboro ceramic series defined by Coe (1952, 1964:105). This pottery is tempered with medium to fine sand or finely crushed feldspar and is primarily simple stamped. Two distinctive feature types from this phase are large basins (possible roasting pits or earth ovens) and shaft and chamber burial pits. At the Wall site, burials were inside or adjacent to structures (Ward and Davis 1993:412).

In the north-central Piedmont, the Early Saratown phase (A.D. 1450-1620) follows the Dan River phase. Excavated village sites from this phase are fewer but larger and appear to represent intensive use of the Dan River floodplain. Ceramics of this phase are classified as the Oldtown series and are distinctive from the earlier Dan River ceramics. Oldtown ceramics are tempered with fine sand and are net-impressed, smoothed or burnished, simple-stamped, complicated stamped, corncob impressed, or cordmarked. New types of rim decorations include castellations and filleted applique strips. Features from the Early Upper Saratown site, located at the confluence of Town Fork Creek and the Dan River, include straight-sided and bell-shaped storage pits, earth ovens, shaft-and-chamber burials, and simple pit burials. Most of the burials had accompanying grave goods such as bone and shell beads and carved shell gorgets (Ward and Davis 1993:419-421).

The Contact period is represented by the Mitchum, Fredericks, and Jenrette phases for the central Piedmont and the Middle and Late Saratown phases for the north-central Piedmont. Phases for the Contact period of the northwestern Piedmont have not been defined, leaving the archaeological sequence after the Late Woodland Donnaha phase unclear (see Ward and Davis 1999:24-25). The Contact period represents Native populations undergoing indirect and eventually face-to-face contact with Europeans. The Mitchum phase (A.D. 1600-1670) is attributed to the historic Sissipahaw tribe, the Jenrette phase (A.D. 1600-1680) to the Shakori, the Fredricks phase (A.D. 1680-1710) to the Occaneechi, and the Saratown phases (A.D. 1620-1710) to the Sara. The Occaneechi played a significant role in relations with the English colonists, acting as middlemen in the exchange of fur and deerskins for European goods. By the Middle Contact period (A.D. 1660 -1680), the Occaneechi and a few other groups were in direct contact with Virginia traders. Trade goods recovered from excavations at Piedmont village sites include glass beads, white ball clay pipes, wire or sheet brass, cast brass items, gunflints, and lead shot (Ward and Davis 1999:254-260). By the late Contact period (A.D. 1680-1710), trade

was carried out via packhorse trains, and interaction is described as sustained and direct (Eastman 1993; Ward and Davis 1993:427). By 1740, due to the dramatic spread of Old World diseases during the period of sustained and direct contact, none of the Piedmont tribes survived (Ward and Davis 1993:430-432).

3.2 HISTORIC BACKGROUND

3.2.1 Exploration to Revolution

One of the earliest explorers of present-day Johnston and Wake Counties was John Lawson, an Englishman who had been appointed by the Lords Proprietors to make a reconnaissance of the interior of Carolina. On December 28, 1700, Lawson's party left Charleston, South Carolina, following the rivers and Indian trails. The party split on February 8 at Keyauwee Town, which was located in present-day Randolph County, North Carolina, with most going directly to Virginia. Lawson's party continued east across the Carolina Piedmont heading for the coast. They traveled for Adshusheer, north of present-day Durham, to the Neuse River where they crossed at the Falls. Lawson had termed the country through which they passed as the Flower of Carolina (Lawson 1967[1709]).

Settlement of the interior of the colony did not begin until after the Tuscarora War, 1711-1714, and the removal of the Tuscarora to reservations. During the term of Governor Burrington, 1724-1729, the construction of roads and harbors also stimulated immigration (Lefler and Newsome 1963). In 1729, the Lords Proprietors, excluding Lord Carteret, sold their interests in the Carolinas to the crown, and between 1729 and 1746, all recorded land grants in present-day Wake County were received through royal governors. The few known grants were large tracts generally made to eastern planters who did not settle the land themselves. After 1746, all the remaining ungranted land in the colony was the former Carteret share and belonged to the Earl of Granville (Murray 1983) (Figure 3.2-1).

In an effort to deal with the influx of settlers, the legislature created new counties, including Johnston County in 1746. Wake County was formed in 1771, and was made up of sections of Johnston, Cumberland, and Orange Counties. Johnston County was named after Gabriel Johnston, North Carolina's royal governor from 1735 to 1752 (Ready 2005). Wake County in turn was named in honor of Margaret Wake, wife of Governor Tryon (Corbitt 1950). The General Assembly voted in 1788 to establish a permanent state capitol in Wake County (Lefler and Newsome 1963).

Prior to the American Revolution, the colonial capital of North Carolina was located in New Bern. During the Revolution, the removal of the capital to a different location became a matter of necessity. Due to westward expansion, New Bern was very far removed from a large number of North Carolina settlers. In addition, New Bern's coastal location made it an easy target for British warships with an accompanying invasion force (Powell 1989).

Even with the apparent need for a new capital, the General Assembly found it difficult to agree on where the new capital should be located. Among the candidates for the new seat of power were Tarboro, Fayetteville, and Hillsborough. Between 1777 and 1790, the General Assembly



Figure 3.2-1: Detail of the 1770 "A Compleat Map of North-Carolina from an Actual Survey," Showing the Approximate Location of the Project Area (Collet 1770).

allowed political bickering and sectional differences to delay a decision on the capital's location. No fewer than seven North Carolina towns enjoyed the title of capital between the years 1777 and 1794. By 1787, the Assembly realized that it was probably not equal to the task of choosing a permanent capital. The issue was therefore given to the same convention that was meeting to consider the proposed federal constitution (Powell 1989). The convention passed a resolution that the permanent capital of North Carolina be located within 10 miles of Isaac Hunter's Wake County plantation. The exact location of the capital was left to the discretion of the Assembly. As instructed, the Assembly appointed a commission in December 1791 to choose the exact location of the new capital. The commissioners settled on land owned by Colonel Joel Lane. The site of the capital was christened Raleigh, a name supposedly put forth by former Governor Alexander Martin (Waugh 1967).

The new capital was well planned. William Christmas laid out the town, modeling it after plans drawn up in 1758 for George City, a planned North Carolina colonial capital that never materialized. The plan was sound, establishing Union Square in the center of the town where the state house was to be located (Powell 1989). Four main streets, Fayetteville, Halifax, Hillsborough, and New Bern, led out from Union Square. These streets were 99 feet wide and were named in honor of the four towns that had failed in their bid to become the state's permanent capital. Other streets were only 66 feet wide (Waugh 1967). Each quarter of the city had four square acres reserved. The remaining 276 acres of the new capital were to be sold, with revenue going to the construction of the city's public buildings (Powell 1989).

During this period slavery in North Carolina differed from that in Virginia and South Carolina. By 1700, perhaps four hundred slaves were scattered across the settlements of the Albemarle Sound region (Ready 2005:69). These numbers increased exponentially with the development of the Cape Fear region. In 1705, there were almost 1,000 slaves in North Carolina. By the time the colony reverted to royal control in 1729 that number had grown to 5,500. By 1755, they numbered 19,000, and on the eve of the Revolution the number of slaves was 85,000, even surpassing more traditional slave holding states such as Maryland, and equaling South Carolina (Ready 2005:69). While the number of slaves was high compared to other slave holding states, some historians have suggested that the geography of North Carolina, the absence of a staple crop, and the subsequent slow development of the region meant that slavery was perhaps milder and more patriarchal than that of most of the southern colonies. Furthermore, the "smaller number of large plantations and slaveholdings," somehow lessened the harshness of slavery in North Carolina (Ready 2005:70). This view is debatable and not necessarily helpful for developing a more nuanced understanding the historic context of enslaved African Americans, and archaeology is one field of study that may contribute to a more concrete understanding of the African American experience. According to the 1790 census, Johnston County had a population of 5,691. There were 1,328 slaves and 249 slave-holding families, with on average five slaves. Wake County had almost double the population (10,198), and almost twice as many slaves (2,472). There were 390 slave-holding families in Wake County, with on average six slaves (Historical Census Browser 2016a).

3.2.2 Early National and Antebellum Periods

By 1835 North Carolina had become a state unto itself, and separate even from its southern neighbors. It had few towns, little industry, limited capital, only three banks (the Bank of New Bern, the State Bank of Raleigh, and the Bank of Cape Fear in Wilmington), and an inadequate system of public and private education (Ready 2005). North Carolina was also still known for its few and bad roads, its sluggish rivers that emptied into the Atlantic, and its lack of adequate ports, harbors, and towns. Internal improvements, such as the interconnecting of roads, turnpikes, rivers, canals, ferries, and railroads would knit the state together and provide arteries for commerce, crops, and industry and furthermore access to markets, and was seen as the universal solution to all of North Carolina's problems (Ready 2005). Archibald DeBow Murphey (1777-1832), a neo-Federalist, envisioned these improvements as the stepping-stones to a golden age of progress, affluence, and education for North Carolina (Ready 2005:164).

Raleigh's population at the beginning of the nineteenth century was 669 persons. The cost of living in the state's capital was extremely high. In a state that already possessed the unwanted nickname the "Rip Van Winkle" state, Raleigh was not considered a good place to live. By 1840, the capital only had 2,244 citizens, and the city did not expand beyond its one square mile border until 1857. Many residents of Raleigh during the first half of the nineteenth century relied on income received from investments in other areas (Waugh 1967). Figure 3.2-2 shows the project vicinity in 1833, illustrating some recorded residences in the or near the project area but generally showing sparse settlement.

The railroad again held out hope of increased prosperity for the Raleigh area in the mid-1850s. The Raleigh and Gaston Railroad was extended in 1855 from Weldon to Norfolk, Portsmouth, and Baltimore. The section of the North Carolina Railroad connecting Charlotte and Goldsboro was completed in January 1856 (Powell 1989). The North Carolina Railroad passed through Raleigh and soon extended from Goldsboro on to New Bern, passing through Johnston County (Waugh 1967).

The railroads were certainly a major improvement in the state's transportation system, but of major concern to the state's rural inhabitants was the poor condition of the state's roads. One Wake County farmer describing the terrible state of the roads in the 1840s stated "there is no money in raising corn; it costs too much to get it to market" (Murray 1983: 256). The state attempted to rectify this problem during the 1850s by chartering companies to construct plank roads. Unfortunately, the lumber used to construct the roads rotted too quickly, making the price for upkeep too high and resulting in the failure of the plank road system in North Carolina (Murray 1983). The arrival of the railroad ultimately led to a shift from subsistence farming to market-driven agriculture (Lassiter and Lassiter 2004).

Although the population of Raleigh was still small as of 1840, the city's few residents had reason to be enthusiastic about the future. In 1840, the Raleigh and Gaston Railroad was completed. Much of Raleigh's economic development heretofore had been stymied by the fact that it was unable to conduct any sort of river trade. The coming of the railroad brought with it the opportunity to trade easier not only with the rest of North Carolina, but also with other states as well.



Figure 3.2-2: Detail of the 1833 "A New Map of the State of North Carolina. Constructed from Actual Surveys, authentic Public Documents and private Contributions by Robt. H. B. Brazier, Published under the Patronage of the Legislature, by John Mac Rae", Showing the Approximate Location of the Project Area (Brazier 1833).

Beginning on June 10, 1840, Raleigh was the scene of a huge three day celebration of the coming of the railroad (Waugh 1967).

During this period, industrialization came to Raleigh in earnest. Industrialization helped spur the city's population boom, as witnessed by the fact that the city's population doubled during the 1840s. However, this trend was short-lived. Some left the city at the end of the decade to pursue gold and their fortune in California. Others were victims of a cholera epidemic that hit the city in August 1849 (Waugh 1967).

Another aspect of industrialization in Wake County was milling. Grist mills in Wake County such as Penney's Mill, now known as Yate's Mill, date to as early as the mid-eighteenth century (Hawkins 2008:22) and operated through much of the nineteenth century. Grist mills of its general size, location, and era were typically custom mills that worked on a toll basis, collecting a portion of the flour or meal based on what a local producer brought for grinding (Hawkins 2008:2). Such mills were often significant to surrounding communities, as they often became a center for other commercial ventures and for community gathering for economic and social exchange (Hawkins 2008:11-12; Lovett and Lautzenheiser 2002:245).

According to the 1860 census, the population of Johnston County had grown to 15,656, of which 4,916 were slaves. There were 486 slaveholders in the county, 97 of which only had one slave. The numbers for Wake County were once again more substantial. The population had grown to 28,627, of which 10,733 were slaves. There were 1,195 slaveholders in Wake County, 210 of which only had one slave (Historical Census Browser 2016b).

3.2.3 Civil War

When news that North Carolina had seceded was announced, the emotions displayed in Raleigh were a reflection of the state. Some celebrated the news, while others were not in favor of the news that the state had decided to leave the Union. Although divided on whether or not to secede, the state prepared for war. The capital was the scene of large supply depots and training camps for thousands of soldiers preparing to join Confederate armies in Virginia or take up defensive positions in North Carolina. A hospital was also established in the capital to treat the large number of wounded Tarheels (Waugh 1967).

Optimism that pro-secessionists in the capital felt during the war's early days was lessened by the war's hardships. Confederate currency soon became so worthless that barter became commonplace. Invasion was also a concern as shown by the fact that Governor Vance ordered the capital fortified in July 1863 (Waugh 1967).

Following their defeat at Bentonville near Smithfield in Johnston County, General Joseph Johnston's army marched through Raleigh in March 1865, followed closely by General William Sherman's Union army. It was during this time that both Confederate and Union troops crossed the Neuse River at Battle's Bridge, possibly passing through the current APE along Battle Bridge Road (Barrett 1956:203-225). Though earthworks had been constructed for Raleigh's defense, they were useless without anyone to man them, as Johnston's army continued its retreat. The state's records and what army supplies could be carried off were evacuated from the capital.

Government officials then surrendered the city to Sherman's army in the hope for favorable treatment (Waugh 1967).

According to *Branson's North Carolina Business Directory* of 1867-68, the population of Johnston County was 15,656. Branson's directory makes no mention of any schools in Johnston County and lists only one manufacturer, the Lowell Cotton Factory, and two mills, one on Boone Hill and one in Smithfield. According to the *Directory*, the population of Wake County was 28,627 in 1860, with 4,780 of them living in Raleigh. Branson lists twenty schools in the county, thirteen of which were located in Raleigh and there was even a "colored school." Most of the manufacturers were located in Raleigh, but mills were distributed more evenly across the county. Branson listed four mills in Auburn, which is located where US 70 intersects with the current project area, and four in Holly Springs, which is located approximately two miles south of the western terminus of the project area. There were fourteen post offices in Wake County, one of which was located in Auburn (Branson 1867-68).

3.2.4 Reconstruction

With the abolition of slavery and the renunciation of Confederate war debts, North Carolinians recognized that they had little money or capital to begin rebuilding the state. With thousands of Confederate war veterans returning, the state had few resources to aid them and, further, feared their pent-up anger and hostility. With more than 350,000 newly freed slaves, North Carolina now had to adjust to an expanded concept of citizenship and civil rights (Ready 2005:250). By 1870, the population of Johnston County had grown slightly to 16,897, and by 1880 it had reached 23,461. The population of Wake County had grown more substantially and had gone up to 35,617, and by 1880 had even reached 47.939 (Historical Census Browser 2016c and 2016d). These changes are reflected by the 1871 Fendol Bevers map of Wake County, which shows numerous residences, mills, and churches among other buildings south of Raleigh in the project vicinity (Figure 3.2-3).

Raleigh faced more than just the physical damage and hardship brought by the war. Buildings and homes could be rebuilt, but the South was faced with the loss of numbers of its men and an economic and social system that was turned upside down. The capital remained occupied by Union soldiers until 1877. The time was marked by abuses of power and excesses, including charges of an open bar established in the State House, as well as certain rooms in the building set aside for prostitutes (Waugh 1967).

However, Raleigh was able to make progress during this difficult time. The Raleigh Institute, now known as Shaw University, and St. Augustine College were established as African-American schools. African-Americans took an active interest in the city of Raleigh and its development. Following the war, the community was theirs as well, and they wanted to share in the shaping of it (Waugh 1967).

Following the Civil War, plantation owners were faced with a lack of farm laborers to work the fields. The plantation system that rested on the foundation of slavery gave way to the tenant farming and sharecropping system. Farms also decreased in size in the years following the war, again due to changing conditions brought about by emancipation of the traditional labor force.


Figure 3.2-3: Detail of the 1871 "Map of Wake County" Showing the Approximate Location of the Project Area (Bevers 1871).

In some areas of the Piedmont, nearly two-thirds of the farms were operated by tenants by the close of the nineteenth century (Piehl 1979).

According to the 1860 census, there were 1,149 farms in Johnston County and 109,740 acres of improved land. The largest number of farms (373) were between 20 and 49 acres. By 1870, the number of farms had increased to 1,947, but the acres of improved land had decreased to 76,829. The largest number of farms (825) still only held between 20 and 49 acres. The numbers for Wake County for those two censuses show a similar development. By 1860 there were 1,631 farms in Wake County and 183,947 acres of improved land. The largest number of farms (581) were between 100 and 499 acres. The 1870 census shows that the number of farms had increased to 1,995, but the acres of improved land went down to 119,021. The size of farms also shrunk, and the largest number of farms (889) were now only between 20 and 49 acres (Historical Census Browser 2016b and 2016c).

Although still a predominantly rural, agricultural county, Wake County was the home of various industries at this time. Branson's 1872 directory reported that Wake County possessed 68 mills of various types at that time, likely mostly grist mills and saw mills. The 1870 census reported that in addition to the mills, Wake County was home to 27 other manufacturing businesses (Murray 1983).

According to *Branson's North Carolina Business Directory* of 1896 the population of Johnston County was 27,211, with 19,889 white and 1,322 "colored" residents. Cotton, corn, and sweet potatoes were staple crops and the county was also known for its naval stores. There were forty towns and post offices, the largest being the county seat Smithfield (population 950), followed by Clayton (population 675), which is located approximately six miles northeast of the intersection of the project area with I-40. The town of Leachburg (population 175) was located near the interchange of I-40 and SR 42, to the south of the current project. The population of Wake County was 49,202, with 26,093 white and 23,109 "colored" residents. The population of Raleigh was up to 20,000, which included some of its early suburbs. Farmers grew cotton, tobacco, corn, wheats, oats, and sweet potatoes, as well as several kinds of fruits. The forests produced pine, hickory, oak, poplar and other types of trees, and graphite (or as Branson called it plumbago) was found in great abundance. There were 48 towns and post offices in Wake County, and Auburn (just in or immediately adjacent to the project area) was the seventh largest town with a population of 350 (Branson 1896) (Figure 3.2-4).

3.2.5 Twentieth Century

Raleigh remained a city of only four square miles until 1913 when it was expanded (Figure 3.2-5). However, the city was far from stagnant. Industry in the city abounded. Roads were paved, primarily with macadam and stone. Enrollment in schools was on the increase, and telephones, electricity, and automobiles were becoming commonplace (Waugh 1967).

The Federal Emergency Relief Act (FERA) came to North Carolina in May 1933. A major federal program, it provided grants, not loans, to states based upon projects submitted for approval. Despite opposition from local politicians, the North Carolina Emergency Relief Administration (NCERA), a separate agency overseen by the FERA distributed more than \$40



Figure 3.2-4: Detail of 1899 Rand McNally Map of North Carolina Showing Wake County and the Approximate Location of the Project Area (Rand McNally and Company 1899).



Figure 3.2-5: Detail of 1910 Rural Delivery Routes, Map for Wake County, Showing the Approximate Location of the Project Area (United States Post Office Department 1910).

million in federal funds and more than \$700,000 in state funds. Over 75 percent of the money went to direct relief; the rest to fund public works taken over from the Public Works Administration, including education projects. Within eighteen months, the works division had provided funds for sixty-one schools, thirty grandstands for football and baseball games, seven airports, five hospitals, twenty public stadiums, six amphitheaters, 104 mi of sewer, 309 mi of roads, 150 new homes, more than 53,000 trees, and fourteen fish hatcheries and ponds. Additionally, more than ten thousand farm families, more than 65 percent of whom were African American, received aid from the NCERA for resettlement loans (Ready 2005:334). The Civil Works Administration (CWA) had a short but productive life in North Carolina. From the middle of November 1933 until April 1934, almost six months, the agency built three hundred new schoolrooms, renovated four thousand more that had been neglected because of shortage of funds, erected one hundred new gyms and repaired forty, and, looking to improve the overall CWA terms (Ready 2005:335). Both the NCERA and the CWA left their impact on Johnston and Wake Counties. In Johnston County Federal funds contributed to the construction of an African American school in Selma and community houses in Smithfield and Selma. It furthermore provided funds for the improvement of county roads and streets and for farm rehabilitation. In Wake County the money was used for the construction of bridges and dams, concrete bleachers at State College Stadium in Raleigh, a swimming pool and bathhouse at Pullen Park in Raleigh, work at the Raleigh Municipal Airport, road repair and street improvements, painting and repair of schools, and rural rehabilitation, to name but a few. The Historic American Building Survey (HABS) spent \$175,000 in North Carolina to document historic buildings in seven counties, one of which was Wake (Kirk et al. 1936).

By 1900, the state literacy reports showed that 50 percent of African-Americans and 20 percent of whites in the state were illiterate. Governor Charles B. Aycock stated in his January 5, 1901, inaugural address that he would make education a priority. However, Raleigh had to wait until 1908 before Raleigh High School was established with an enrollment of 250 students (Waugh 1967).

From 1901 until 1945, African Americans turned inward to develop their own communities, schools, churches, fraternal and mutual-aid societies, even banks, grocery stores, credit unions, and entrepreneurs. By encouraging African American-owned businesses and the formation of schools taught by well-educated African American men and women, discrimination and prejudice unwittingly had promoted a consciousness of the distinctiveness of "a race with a common cause, a common purpose [and] a common interest" (Ready 2005:348). One way in which this manifested itself was the establishment of Rosenwald Schools, not only in North Carolina, but also in much of the South.

An important development on the educational landscape of Johnston and Wake Counties was the funding of at least twenty-four schools by the Rosenwald Fund during the 1920s. Created by Booker T. Washington and Julius Rosenwald, president of Sears, Roebuck and Company, the fund promoted the education of African Americans in the South through a program that distributed matching grants for the construction of public schools. These required local school system tax dollars as well as local community dollars, almost all of which were raised by and from African Americans far in excess of the Fund grants (Brown 2007). The Rosenwald Fund

developed architectural plans and specifications for its schools, which were firmly grounded in progressive ideas of school design in their attention to sturdy construction, adequate lighting and ventilation, ample size and proportions of classrooms, and space for playgrounds and gardens. The Fund published a set of *Community School Plans* in 1924, which it revised and republished in 1926, 1927, 1928, and 1931 (Brown 2007:30). Altogether, the Fund assisted more than 5,000 schools for African Americans, including approximately 800 in North Carolina, more than any other state. The desegregation of schools in the late 1950s led to the abandonment of most Rosenwald schools, including those in Johnston and Wake Counties. Ten Rosenwald schools were built in Johnston County, only two of which have been recorded in HPOWEB. In Wake County twenty-four Rosenwald schools were built, of which six have been recorded – two of those no longer survive. The Panther Branch School (WA1202) is a three-room Rosenwald school in Wake County, which was constructed in 1926, and is located in Juniper, where the project area intersects with SR 2727 (Sauls Road).

Highway maps from the 1930s provide information on the transportation network of the area at the time. State highway maps from 1938 for Johnston and Wake Counties shows the variety of roads that intersected with the current project area (Figure 3.2-6 and 3.2-7).

Agriculture and lumber had played an important role in the economy of Johnston County up to the twentieth century. During the early twentieth century a few textile mills were established in Johnston County and highly mechanized agriculture was introduced after World War II. The latter led to a drop in employment on farms, but this was replaced by new jobs created in industries moving into the county (Bliley 1994). The 1916 Soil Survey for Wake County points to the excellent transportation facilities in the county with the various railroads and ongoing road improvements, and the presence of cotton and knitting mills in Raleigh, as well as oil works, foundries, fertilizer factories and lumber plants. Cotton was the most important crop, followed by tobacco (Brinkley et al. 1916).

From 1961 to 1998, the state deliberately built good roads into even the most rural of communities, and they have continued to do so. Some of the improvements taking place prior to cultural resource regulations and not connected with the 1966 National Historic Preservation Act, affected historic properties. Although most North Carolinians today live within fifteen miles of a major interstate or four-lane thoroughfare, they find their way to work on well-constructed smaller roads that lead to those freeways and interstates, all built by state planners. By "paving every road in the state that carries more than fifty cars per day," North Carolina has created an interconnected complex of highways that allowed most to commute not only to their jobs but also to their families within thirty or forty minutes (Ready 2005:373). As of the year 2000, North Carolina has more than 100,000 miles of highway, 80,000 of which are under state control, making it the second-largest state-owned system of roads in the nation (Ready 2005:382).

The most significant changes for Johnston and Wake Counties during the twentieth century, particularly since the end of World War II, has been the shift from a rural to urban environment. Sections of the project area are still rural, specifically to the west of Juniper, but these areas are becoming increasingly developed. Wake County has drawn many new residents through the



Figure 3.2-6: Detail of a 1938 Map of Johnston County, North Carolina (State Highway and Public Works Commission), Showing the Approximate Location of the Project Area (North Carolina State Highway and Public Works Commission 1938a).

3-21



Figure 3.2-7: Detail of a 1938 Map of Wake County, North Carolina (State Highway and Public Works Commission), Showing the Approximate Location of the Project Area (North Carolina State Highway and Public Works Commission 1938b).

establishment of universities and colleges, industries, and Research Triangle Park. Many of the residents in Johnston County are also employment in Raleigh and the Research Triangle Park, in part due to the presence of roads such as I-40 and US 70, and also housing development found in western and northern parts of the county near the Wake County line (Bliley 1994).

4.0 ARCHAEOLOGICAL RESULTS AND RECOMMENDATIONS

4.1 METHODS

4.1.1 Evaluation

The purpose of the archaeological fieldwork and post-field analyses was to collect data on sites to support recommendations on eligibility for the National Register of Historic Places (NRHP). The NRHP criteria require that the quality of significance in American history, architecture, culture, and archaeology should be present in buildings, structures, objects, sites, or districts that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and that the buildings, structures, objects, sites, or districts:

- A. are associated with events that have made a significant contribution to the broad patterns of our history;
- B. are associated with the lives of persons significant in our past;
- C. embody the distinctive characteristics of a type, period, or method of construction or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- D. have yielded, or may be likely to yield, information important in prehistory or history (National Park Service 2017).

One of the most important aspects of significance in evaluating the eligibility of archaeological sites is scientific (research) value. It is, therefore, essential to establish a scientific, archaeological, and historic framework to interpret the identified resources. This framework derives from several sources, including research themes and questions relevant to the history and prehistory of, for this project, the Central Piedmont region of North Carolina and the Southeast in general as well as themes of historical archaeology and precontact Native American archaeology in general. With regard to open-air historic and precontact Native American sites with no above-ground surface manifestations, eligibility or potential eligibility is most typically established with reference to Criterion D of the NRHP, which includes the stipulation that a site must have the potential to contribute new information through additional work; however, all NRHP criteria are applied in evaluation. Additionally, establishing a context to assess historic period sites involves an examination of the historical record. This is often done during a separate and more intensive level of investigation for sites appearing potentially eligible for the NRHP, and is done to determine the site's potential to address questions related to lifeways, socioeconomic trends, and specific events from the post-contact period through the middle of the twentieth century.

Generally in the evaluation of site integrity, archaeological sites that lack sub-plow-zone artifactbearing deposits, have low-density artifact distributions, contain evidence of deep plowing, lack spatial integrity, lack artifact concentrations, or exhibit signs of earth-disturbing activities do not appear to be good candidates for NRHP eligibility. Sites that contain or may contain concentrations of artifacts, intact surface features, or intact subsurface cultural deposits may be recommended as eligible for inclusion in the NRHP or as potentially eligible for the NRHP pending more detailed investigation. Historic sites that contain intact above-ground features as well as sites that contain discrete deposits that represent well-defined time periods, either as part of a longer occupation or a single short occupation, are more likely to be good candidates for the NRHP.

Important research themes that have been identified in previous regional research and previously cited by NCDOT, and that were considered in evaluating sites during the current project include:

- *site formation processes* (e.g., what are the chances for preservation of significant sites, relative to factors of cultural and natural disturbance)
- *precontact settlement history, settlement systems, culture history, and adaptations* (e.g., what distributions of various artifact types can be recognized and related/compared to regional sequences?; do upland sites in the Piedmont contain data that could be useful in resolving the question of the Late Archaic to Woodland transition and the development of settled lifeways and increasing social integration or the Early/Middle Woodland to Piedmont Village Tradition transition?; can low density or limited duration upland sites provide information pertinent to on-site activities, raw material utilization, reduction staging, and other variables that could temporally distinguish components in the absence of standard diagnostic artifacts, and can these sites be related to other components of settlement systems?; are sites likely to contain faunal and botanical remains providing information on subsistence adaptations and their relationship to social and settlement change?).
- *precontact interaction patterns* (e.g., do lithic procurement strategies change through time and reflect various orientations of cultural interaction with respect to the major physiographic regions and source areas?; how can the archaeological record inform us of patterns of social interaction such as aggregation for mate and information exchange?).
- *site predictions* (e.g., do modern environmental factors of topography, soils, etc., serve as adequate predictors of precontact Native American site selection?)
- *historic domestic patterns* (e.g., how did house forms, plans, and use of material change from the settlement period through the nineteenth and early twentieth centuries?; how do these relate to various phases of settlement and the variety of ethnic groups settling the Central Piedmont?)
- *patterns related to historic agricultural production* (e.g., what was the relationship between the housing patterns, types of farming, and locations along waterways?; were early patterns established which continued into the nineteenth century?; what house forms, plans, and farm layout patterns, etc., characterized the yeoman's farm?; do farm complex sites differ in form, materials, or functions depending on ethnic associations, class, or subsistence vs. commercial farming?; what effect did increased farm size have on small tenant farms?; how did farm layouts and functions change in the post-Civil War era?)

• *the rise of historic industrialization and the impacts of transportation evolution* (e.g., is there any evidence of early industrial worker housing associated with early industrial sites?; are industrial- or mill-related domestic sites different from housing associated with small farms and tenant farms?; can we gain information on social and economic exchange taking place as early industrial sites such as mills become the focus of communities?).

4.1.2 Documentary Research

Records and reports of previous archaeological research and specific resources in the region were collected from OSA and the Commonwealth library in order to document previous studies in the APE as well as to collect data to understand broader issues of regional precontact and historical archaeology. Documentary research was conducted at the library at Commonwealth, which includes county and regional history volumes, through interlibrary loan, and through online access including Ancestry.com, Newspaper Archives.com, the digital archive of North Carolina maps at UNC-Chapel Hill, and the Library of Congress. Maps such as the 1871 Map of Wake County by Fendol Bevers as well as early twentieth-century topographic maps and architectural location maps in Mattson, Alexander and Associates, Inc. (2014) were examined for evidence of potential historic sites or cemeteries in the APE. The Fendol Bevers map is of particular importance as it is detailed and shows residences, churches, stores, mills, etc., but this map could not be accurately georeferenced for the whole corridor and afforded only approximate georeferencing for any given specific area. Results of the background research indicating known site locations or potential site locations were incorporated into the project field mapping.

4.1.3 Field Methods

The APE was given full consideration based on the methodology set forth by the NCDOT SOW and Commonwealth's technical proposal. In consultation with OSA, NCDOT determined that the entire APE, except for areas that have been previously surveyed, would be subjected to a pedestrian (visual) reconnaissance to inspect for above-ground surface features and artifacts including resources such as structural remains (chimneys, wells, footings), cemeteries (markers, fences, depressions, periwinkle and other domestic evergreens), and artifact scatters where permitted by visibility. The methodology specified that for archaeological sites identified during visual survey of noneroded or eroded soils, or if otherwise warranted, subsurface testing would be completed to better determine site function, size, stratigraphy, cultural affiliation, and NRHP eligibility.

NCDOT's SOW indicated that only undisturbed locations are anticipated to contain intact archaeological sites with good cultural and stratigraphic integrity. They therefore determined that shovel testing would be unnecessary as a discovery method in areas of modern disturbance and eroded soils as mapped in modern soil surveys. The SOW work also stated that pedestrian or visual reconnaissance would be ample for identifying sites in areas of erosion and disturbance. Per the SOW, the visual portion of the survey through eroded sections utilized between 5 and 11 transects to cover the width of the APE. Intensive survey by shovel testing or appropriate pedestrian survey methods was conducted in areas not mapped as eroded and not appearing obviously disturbed, steeply sloped, or low and wet. The only variation from this agreed-upon

methodology was that Commonwealth, at the discretion of its field directors, conducted occasional judgmental intensive survey in areas that were mapped as eroded if an isolated, seemingly high-potential landform was encountered (e.g., a ridge toe with mature trees suggesting that erosion might be more minimal than indicated by the soil survey).

Visual Reconnaissance and Intensive Pedestrian Survey. The project involved full consideration of the APE, and those areas that were previously mapped as eroded or visually confirmed to have extremely low site potential (low, wet, steeply sloped, or disturbed) were visually inspected for above-ground surface features and artifacts. This effort included walking these areas along transects at 30-m intervals. When archaeological sites were identified during the visual reconnaissance, subsurface testing was utilized as necessary to better determine site function, size, stratigraphy, cultural affiliation, and NRHP eligibility. In higher potential areas (intensive survey areas that were not mapped as eroded, not obviously disturbed, and not steeply sloped or low or wet) intensive pedestrian survey, supplemented by subsurface shovel testing as necessary, was conducted at approximately 10-m intervals, if surface visibility was greater than 50 percent.

Shovel Testing. Shovel testing at 30-m (100 ft) intervals, supplemented by judgmental testing, was used for intensive survey in areas with reduced ground surface visibility. Judgmental shovel tests were also occasionally placed in areas mapped as having eroded soils, if the landform or topography appeared to otherwise possess high potential for cultural materials, according to the field director's discretion. An example of such a situation would be a wooded ridge or ridge toe, near a stream and having mature vegetation that was suspected to be minimally eroded despite soil mapping indicating otherwise.

The shovel tests measured roughly 30-cm in diameter (approximately 12 in) and were excavated into sterile subsoil, the underlying water table, or as deep as is practical given the limitations of subsurface testing through this methodology. Data from each shovel test included location, types of artifacts recovered, depth and probable zone of artifact recovery, and soil color and texture. All positive shovel tests were recorded using GPS (Trimble GeoXH with submeter accuracy). Further investigation and NRHP evaluation of each archaeological resource (discrete collection of positive results) were considered independent of the systematic sampling survey. As such, radial shovel tests spaced at 15-m intervals in a cruciform pattern were excavated to refine site boundaries. Additional systematic shovel tests on the site grid and/or judgmental shovel tests were also used to investigate the potential for each site. Both positive and negative shovel tests were recorded with a GPS to illustrate the site boundary. Survey was generally not conducted outside the APE, except as necessary and appropriate to estimate the full extent of a site. If possible, boundaries of sites that extended outside of the APE were estimated based on landform, topography, or other factors such as surface artifact scatters. Soils were screened through 1/4-inch hardware cloth, and soil color and texture and notes on the stratigraphic relationship of the artifacts were recorded in order to characterize the nature of cultural deposits in the project area.

Site Definition. Per the NCDOT SOW, an archaeological site was defined as five or more artifacts within a 50-x-50-m or greater area. An isolated find was any locus where a single artifact up to a cluster of four precontact Native American or historic artifacts was recovered within a 50-x-50-m area. Site boundaries were based upon positive shovel test locations (two

negative shovel test pits in a row during excavation of radial shovel tests), APE boundaries, the distribution of surface artifacts, topography, or any other natural barrier that would have prevented occupation. All sites and isolated finds were recorded, as encountered, with a temporary Commonwealth tracking number based on the internal project number (268), the segment letter, and a serial number (e.g., 268-A1). Permanent state site numbers were obtained from OSA at the conclusion of the fieldwork phase, after site boundaries were refined and/or merged as appropriate based on preliminary data processing. Artifacts recovered during site excavations were placed in bags labeled with the appropriate site provenience information. Digital photographs were taken and sketch maps were prepared to depict the boundaries, excavation strategies, and features associated with the site.

Test Excavations. Evaluation of selected archaeological sites identified by the survey necessitated the excavation of test units (generally none for small or deflated sites, isolated artifact finds, cemeteries, and disturbed sites). The following standards were followed:

1. A datum was placed in the site vicinity and all excavation units (shovel tests as well as larger test units) were recorded with GPS and in reference to the datum. Measurements were recorded using metric units, with English system equivalents. Prior to excavations, a plan view of the surface features and elevations of the site were drawn to scale.

2. A system of designation of individual cultural features, excavation units and levels was devised and keyed to the excavation drawings, written records, and photographs.

3. Excavation units were a standard size (i.e., 1-x-1-m test units), although half units or rectangular units of roughly the equivalent size were used as necessary. Soil features were excavated discretely, rather than within units.

4. All hand-excavated soils were sifted through ¼-inch mesh. For the sifting of feature soils or other samples, a finer mesh was substituted if appropriate. Excavated levels conformed to natural soil strata as observed. Soils were described using standardized measures such as Munsell Soil Color Charts.

5. All suspected cultural features were properly recorded, and a representative sample of the features was excavated by hand. Written descriptions of features included dimensions, shape, matrix color and texture, depth below surface, stratigraphy, and recovered materials. Features were mapped in plan view prior to cross-section excavation, and in profile to record the cross-section. Features were excavated by methods appropriate to their size and type.

6. A digital photographic record of the excavations was maintained, including images of all features in plan view and cross-section and of up to two soil profiles of each excavation unit as appropriate to show variation in stratigraphy.

Cemeteries. Two cemeteries were recorded within the APE. Site 31WA1984** is located west of US 401/Fayetteville Road and south of Ten Ten Road, close to Wake Technical Community College and south of Donny Brook Road. This cemetery appears on the current USGS 7.5-minute topographic map, but is positioned on the north side of Donny Brook Road, rather than

the south side where it was encountered during survey. Site 31WA2095** was encountered just north of Poole Road and corresponds to a cemetery marked on the topographic map for that area. Sketch maps were prepared to show the locations of all grave markers and an inventory of the information on each marker was made. Digital photographs were taken of unique markers. GPS points were taken to define the boundary of the cemetery and known interments. Delineation to determine the potential for unmarked burials was not conducted, although information on known and/or suspected cemetery boundaries is provided.

4.1.4 Laboratory Methods

Artifacts recovered from all identified archaeological sites and isolated finds were placed in bags or containers labeled by provenience unit, stratum, date, and other pertinent information. With the exception of historic construction materials, such as brick fragments, all artifacts were washed, dried, inventoried, and marked with a permanent accession number. Appropriate materials were sampled and discarded after identification (e.g., brick fragments), at the discretion of the principal investigator or in consultation with NCDOT.

Accession numbers were assigned by OSA. An inventory of all artifacts and samples was prepared for inclusion with these materials and in this report, and other appropriate documentation has been prepared for the curation package as per the instructions outlined in the *Archaeological Curation Standards and Guidelines* (Office of State Archaeology 1995). Cultural materials will be temporarily stored at Commonwealth's office until such time as the curation package and materials are transferred to OSA's curation facility. A few of the site assemblages may be or will be returned to respective property owners per a request, and these sites will be clearly indicated in the curation package.

North Carolina Archaeological Site Forms were completed for each archaeological site and isolated find recorded by the survey. A North Carolina Cemetery Survey Form was completed for each cemetery identified by the survey. All site and cemetery forms are filed at OSA.

4.1.5 Mapping/GIS

In the field, Commonwealth employed Trimble GeoXH GPS data collectors, which provided submeter accuracy when corrected or post-processed using reference data. The reference data used during the current project was acquired on a weekly basis from the nearest Continuously Operating Reference Station (CORS), which is operated and maintained by the National Geodetic Survey of the National Oceanic and Atmospheric Administration (NOAA). GPS data was corrected using Trimble proprietary software.

Commonwealth acquired corridor mapping from NCDOT for this specific project. These files formed the basis for the boundaries of the archaeological APE. Georeferenced digital USGS topographic maps and aerial imagery maps were acquired through ESRI's ArcGIS online services (ArcGIS Image Service 2017a, 2017b).

4.2 PREVIOUS RESEARCH IN THE APE AND PROJECT VICINITY

Twenty-three archaeological resources have been previously mapped within or partly within the APE for the survey corridor. They are 31JT325 through 31JT328, 31WA4, 31WA287, 31WA493, 31WA663&663**, 31WA787, 31WA1186&1186** and 31WA1187, 31WA1335, 31WA1347 through 31WA1352, 31WA1368, 31WA1403, 31WA1853, 31WA1855, and 31WA1899. OSA records indicate that 48 other previously recorded resources are within an approximately half-mile radius of the APE. Both resources within the corridor and in the surrounding area are discussed as they appear from west to east along the project. The sites are described based on information in OSA site forms, unless a technical report was available as indicated below. All areas that have been previously systematically surveyed for archaeological resources, as noted during the background review, are mentioned here and were added to the project mapping that appears later in this report.

Beginning at the west terminus of STIP project R-2721, two similar precontact Native American resources (31WA1060 and 31WA1061) were mapped about 500 m south of the APE and west of Feltonville along the US 55 Bypass as part of the 1992 archaeological survey for the expansion of the South Wake Landfill by Archaeological Research Consultants, Inc. (Hargrove 1992). These resources are both isolated finds of a single quartz flake and a single felsic flake and were situated on top of ridgetop. Both were found ineligible for the NRHP.

There are no more previously recorded sites along the corridor for the next 8.3 km (5.1 mi) to the east, until Bell's Lake Road crosses the corridor where it intersects with Ten Ten Road. In this area sites were recorded by amateur archaeologists Jim and Bob Oshnock, from surface collections in plowed agriculture fields that border the roads in this area. As such, none of these sites were evaluated for NRHP eligibility. Site 31WA1899 has been destroyed by new housing construction. Originally it yielded only lithic debitage when initially recorded, and it was not relocated during survey for the current project due to being destroyed. This site was located within the survey corridor east of Bell's Lake Road across from Oxford Green Drive. Another resource in the same vicinity, but just outside the APE, is 31WA1914, an isolated find of a broken notched/stemmed projectile point. Site 31WA1855 only partially overlaps with the APE at the northern extremity of Bell's Lake Road. This site previously yielded seven diagnostic stone tools from the Middle Archaic (Savannah River Stemmed and Guilford Lanceolate) and Early Archaic (Morrow Mountain II Stemmed and Kirk Serrated) periods from a flat stony hilltop. No evidence of this site was encountered during shovel testing within the APE, so areas within the APE would not contribute to any NRHP eligibility. The site outside the APE remains unevaluated. Continuing 600 m (1,968 ft) northeast, outside the APE, is 31WA1857 with a similar assemblage of Middle to Late Archaic stone tools.

Moving east down Ten Ten Road for approximately 870 m (2,835 ft) begin a series of Oshnock sites found on the surface of agricultural fields that include 31WA1862, 31WA1901, 31WA1851, 31WA1852, 31WA1861, 31WA1859, 31WA1864, 31WA1858, and 31WA1856. This sites all share a similar assemblage of Early, Middle and Late Archaic stone tools, but four of these sites have produced a much higher density of artifacts with assemblages ranging from 60 to 180 stone tools. Three of these sites also have Middle to Late Woodland components with the

presence of smaller triangular points, and two also yielded ceramics including cord-marked Yadkin series ceramics and ceramics with the interior finished by scraping. Site 31WA1851 is probably the largest of these based on site dimensions and also appears to have yielded the highest density of material. It has all three Archaic periods represented as well as evidence for Woodland occupation. Diagnostic points recovered from the site include Kirk and Palmer Corner Notched, Stanly Stemmed, Big Sandy Side Notched, and Small Savannah River Stemmed. The sites along Ten Ten Road also had evidence for lithic reduction in the form of debitage that was not collected. The landform in the APE that follows the western edge of Lake Wheeler Road continues from the same landform to the north that contains these artifact-rich sites and was an area closely examined during the survey.

There are no sites in or around the corridor at the western end of STIP project R-2828 at the intersection with US 401. Not until 2.2 km (1.4 mi) east down Ten Ten Road from US 401 are sites found in the half-mile buffer around the APE. Here in the bordering agricultural fields along Ten Ten Road the amateur archaeologist Ben Moylan made collections that became the following sites in 1995: 31WA1199 through 31WA1204. These sites all can be characterized as precontact Native American lithic scatters with diagnostics ranging from the Late Paleoindian to Late Archaic periods, with Hardaway points representing the earliest items and Savannah River Stemmed points representing the latest items. All of these sites are situated on top of ridges or hills and are close to intermittent drainages. Sites 31WA1199, 31WA1200, and 31WA1201 are close enough spatially and similar enough in material assemblage to be considered the same site. The notes on the site form of 31WA1200 mention that this area was especially "hot" for finding artifacts and that the site was situated in a "great location". The site form for 31WA1202 mentions the presence of over twelve Late Paleoindian Hardaway points. Just across the road from this site at 31WA1898 one of the Oshnocks also encountered stone tools of similar qualities and time periods. He recovered 92 diagnostic points, six scrapers, and ceramics from the Yadkin, Haw River, and the Badin traditions. Other items recovered from the site were ochre, an adze, and atlatl weights. This site appears to be an extension of 31WA1202. Mr. Oshnock also did some collecting about 490 m (1,607 ft) south of this area in an agricultural field just east of SR 1006 (Old Stage Road); the work led to the recording of 31WA1853 (about a third within the current APE) and 31WA1854. These sites are close enough that they could be considered the same site. They lack Hardaway points like the sites to the north and range from the Early Archaic (Palmer and Kirk Corner Notched) to the Early Woodland (Badin series ceramics), but they are located on a similar landform. None of these sites have been systematically tested or evaluated for NRHP eligibility, and most have been disturbed by years of plowing.

Approximately 1.5 km (.9 mi) farther east along the corridor on the first terrace of Juniper Branch is 31WA1403. The southern quarter of this site as previously mapped falls within the current APE. This site was reported by Steven Gray, an amateur archaeologist, in 1998. This site produced material similar to the sites recorded by Ben Moylan, but with no diagnostic items. Quartzite and rhyolite debitage is reported as well as side-notched and corner-notched projectile points. One kilometer (.6 mi) further to the east along Ten Ten Road sits 31WA1195&1195**, which is outside of the current APE and was also recorded by Ben Moylan. This site has a similar precontact Native American assemblage as the other sites reported by Moylan (Hardaway to Savannah River), but also has a historic component based on a note about an old structure in the same area that was torn down in 1994.

East of the intersection of Ten Ten Road and SR 50 is 31WA1190, and to the south of this just east of SR 2731 is 31WA1189. About 1.8 km (1.1 mi) to the southeast along SR 50, where Ten Ten Road begins again, are three more sites collected by Ben Moylan, 31WA1186, 31WA1187, and 31WA1188. These sites are reported as yielding very similar assemblages ranging from the Late Paleoindian Period to the Late Archaic Period. The exception to this is 31WA1190, which also yielded some historic ceramics. These sites all are situated on the top of hills or ridges in agricultural fields. Sites 31WA1186, 31WA1187, and 31WA1188 are close enough spatially that they could be the same site. One of their site forms (31WA1186) reports a very high volume of artifacts and that 90 percent are from the Archaic period. Site 31WA1188 reports some precontact Native American ceramics that may date to the Woodland period. Both 31WA1186 and 31WA1187 overlap the current APE at the south terminus of SR 50, and special attention was given to the investigation of this area. Just west of this area on the first terrace of Buffalo Creek is 31WA268, found by Tim Stevens in 1979 and noted in a newspaper article in the Raleigh-Times. Diagnostic items were Morrow Mountain Stemmed and Savannah River Stemmed points dating to the Archaic period, but an adze and utilized flakes were also found. Approximately 1.7 km (1 mi) back to the west and south of the APE is 31WA1430, recorded by Dennis Woolard on an upland overlooking Guffy Branch. The artifacts for this site range from the Paleoindian (Hardaway) through the Archaic (Palmer and Kirk Corner Notched, Morrow Mountain Stemmed, Guilford Lanceolate, and Savannah River Stemmed) and possibly up to the Woodland period (small stemmed point). None of these sites have been evaluated for the NRHP since they were all reported by amateurs.

Approximately 2.3 km (1.4 mi) east of SR 50 nine sites were encountered, mostly north and within half a mile of the corridor, as part of an archaeological survey performed by Trawick Ward of the Research Laboratories of Anthropology at UNC-Chapel Hill in 1982 to evaluate a proposed waste water disposal site for the Municipal Engineering Services Company of Greer (Ward 1982). These are 31WA287 (within in the APE), 31WA288 through 31WA293, 31WA295, and 31WA297. The material assemblage for these sites is very similar to the previously discussed amateur sites, with almost all of the material dating from the Early Archaic (Palmer Corner Notched) to the Late Archaic (Savannah River Stemmed) periods, with the exception of a single Woodland period ceramic recovered at site 31WA290. These sites were found on ridge spurs and uplands. None of these sites were recommended eligible for the NRHP. Site 31WA287 is described as a small lithic scatter and was not recommended eligible due to severe erosion, plowing, and bulldozer activity, which subsequently destroyed all spatial relationships. Investigation by Ward recovered mostly quartz flakes, but there were a few felsic ones as well as a Morrow Mountain II Stemmed point dating to the Middle Archaic period (Ward 1982). Moving 800 m (2,624 ft) north in the half-mile buffer from 31WA295 is 31WA1166, the Banks-Smith Cemetery recorded in an investigation to locate a reported cemetery in the White Oak Subdivision in 1994. This work was done by John Clauser for OSA (Clauser 1994). Approximately 950 m (3,116 ft) north of the cemetery in the half-mile buffer, west of I-40 was isolated find 31WA723. This was a Kirk Serrated (Early Archaic) point found by the six-year old daughter of David Ridgeway in 1990.

Within the half mile buffer around the APE west of I-40 are three sites (31JT125, 31JT127, and 31JT144) recorded by the Coastal Zone Resources Division of Ocean Data Systems in a cultural

resource survey performed for the stretch of I-40 from the Raleigh Beltline to NC 50 in both Johnston and Wake Counties in 1979 (Loftfield 1979). These are all mapped in locations with agricultural fields on uplands. The only site recommended not eligible for NRHP was 31JT127, due to its low density of recovered artifacts. The other two sites are unevaluated and yielded multiple points from the Middle to Late Archaic periods as well as almost 200 pieces of debitage each. Back to the east there are four sites that fall within in the current APE (31JT325 through 31JT328) and two immediately south of the APE (31JT324 and 31JT329) at the southern extension of the APE along I-40, all from a follow-up archaeological study for the segment of I-40 from Raleigh to Benson in Johnson County by NCDOT (Padgett 1984). These sites are located on the edges of uplands and for the most part within agricultural fields. The sites that are located within the APE are all small lithic scatters that range from the Late Archaic (Savannah River Stemmed) and Woodland periods with low artifact density. These sites were found not eligible for the NRHP, and as such have been overlaid with modern disturbance (highway and commercial structures). Sites 31JT326 and 31JT327 were isolated finds of quartz and rhyolite flakes, and site 31JT325 yielded several nondiagnostic stone tools as well as some Native American ceramics and lithic debitage. All of these sites had severe soil erosion (Padgett 1984). Site 31JT329 was similar to the sites within the APE, but site 31JT324 was a larger multicomponent surface site with items from the nineteenth century that may represent a house site. Shovel tests were used to investigate the latter, but no artifacts were recovered. The other previous survey that crosses the APE is a cultural resources reconnaissance survey from 1993 of three alternate corridors for the US 70 Clayton Bypass in Wake and Johnston Counties, performed by Greenhorne and O'Mara for NCDOT. None of the sites recorded were found eligible for inclusion in the NRHP (Roberts and Butler 1993). The one resource from the project that falls in the half-mile buffer around the current APE, 31WA1139**, was an isolated find of a wire nail.

In the area just east of I-40 and north of the Johnston County line is 31WA4, one of the earliest recorded sites in the project area, initially examined in 1882 by W. S. Primrose but not coded by OSA until 1970. This site was reported as an earthen mound 14 ft in diameter and 2 ft tall. The site boundary indicated on the OSA map encompasses a large area, as the only location indicated on the site form states that the site is "located 10 miles south from Raleigh". The materials recorded from this mound site included charcoal and the human remains of ten to twelve individuals. Commonwealth did not relocated the mound feature, but Native American sites and isolated finds (31WA2035, 31WA2037, 31WA2038, and 31WA2039/2039**) were recorded within the broad boundary of 31WA4 during the current project survey. Separate site numbers were assigned to the individual sites per consultation with the OSA Site Registrar.

Nearly 4 km (2.5 mi) to the north along and within STIP project R-2829 is 31WA787, recorded by amateur collectors Dr. W. R. Rose. This site is described as having yielded diagnostic points from the Paleoindian to Archaic periods and also producing material from the Woodland period. The site, located along a low ridge, was not previously evaluated for the NRHP. Just to the northwest of this site and outside the APE is 31WA18, reported in 1966 by Leland G. Ferguson. There is no specific information on this site with respect to the period of occupation and assemblage, but it is located in a setting similar to that of 31WA787 and had slight erosion at the time of recording.

Just south of the Neuse River and in the APE approximately 2.2 km (1.4 mi) northeast of 31WA787 is 31WA663&663**, a historic grist mill site that was reported in a 2008 noncompliance report by URS Corporation for the City of Raleigh (Jorgenson et al. 2008). This site has many above-ground features or archaeological components of features still intact, related to the mill pond dam, the mill complex, a possible miller's house, an old roadway, the mill race, and a well. URS made a detailed map of the area and did several judgmental shovel tests around a few of the features. In the original report this array of mill features was deemed likely eligible for the NRHP, but the results that follow include a recommendation that the site is not eligible.

To the south of 31WA663&663** is a site located within a half-mile radius of the APE; this was encountered as part of a previously unmentioned survey. Site 31WA1519 was recorded by Brockington and Associates in 2002 during a cultural survey of the Brownfield Tract in Wake County. This small Native American ceramic and lithic scatter was found on an eroded landform suggesting little research potential, and the site was recommended not eligible for the NRHP (Southerlin et al. 2002). Near the terminus of STIP project R-2829 is site 31WA493, recorded by amateur collectors Billy Chappell. This site is described as yielding diagnostic points from the Paleoindian to Archaic periods, as was the case with 31WA787. This site, also located on a low ridge, was not previously evaluated.

Sites 31WA1335, 31WA1347 through 31WA1352, and 31WA1368 are located in the final segments of the current APE at or near the US 64/264 Bypass interchange. These were reported on in 1997 as part of an archaeological sample survey of the US 64 Raleigh beltline and an archaeological survey for US 64's relocation in the Neuse River Basin by New South Associates (Abbott and Sanborn 1997). Only 31WA1352 was recommended eligible for the NRHP based on the likely presence of intact sub-plow-zone deposits and the presence of Middle Archaic tools. However, NCDOT archaeologists revisited the site in 2002 as part of additional work for the US 64 project (Mohler and Overton 2002) and found exposed subsoil across the entire site area. Supplemental walkover also yielded no additional cultural material. In consultation with OSA, the site was therefore determined not eligible for the NRHP. The other seven sites were low-density sites and/or lacked evidence suggesting intact subsurface deposits, and they were also determined not eligible for the NRHP. The items from these sites are mostly lithic debitage with some diagnostic points that range from the Early Archaic to the Middle Woodland period. The only exception is 31WA1351**, which also had a moderately-sized historic component dating to the early to mid-twentieth century. The only one of the eight sites recorded in Abbott and Sanborn (1997) for which additional material was encountered in the current APE was 31WA1348, which yielded additional surface finds and a positive shovel test that slightly expanded the site boundary to the east. An interesting aspect of the Abbott and Sanborn study is that they had developed a survey sample strategy that essentially focused on the uneroded soil types (as classified) with relatively level gradients in their project area (Abbott and Sanborn 1997:26-27). However, and despite this, all the sites that are discussed here were found not eligible for the NRHP wholly or in part due to processes of soil erosion and/or deflation. The only exception was 31WA1352, which had initially appeared only slightly eroded and deflated but was eventually eroded to the point of having exposed subsoil. Two other sites from this survey are located within the half-mile buffer around the current APE. This first, 31WA1353, is characterized as an ephemeral lithic scatter deflated and damaged by logging and tree husbandry. The second, 31WA1354, is a multicomponent site that yielded a modest lithic assemblage

(n=27), Middle woodland ceramics (n=8, similar to the Uwharrie Series), and a set of fieldstone piers of a 10 ft by 20 ft structure and isolated cut nail fragment from a shovel test. The site was not recommended eligible to the NRHP based on severe site deflation and damage from the pine plantation that now occupies the site. The last resource located near the eastern terminus of the APE was labelled as 31WA---- and had no corresponding site form. The note attached to the shapefile metadata reports "SR2515 Cemetery; Reported as wrong location of WA1253-personal com. J Clauser 3/2015". No other information for this cemetery was reported.

4.3 ARCHAEOLOGICAL SURVEY RESULTS

4.3.1 Introduction

The archaeological survey utilized segment-based recording to accommodate multiple crews and field logistics. Survey strategies included standard shovel test transects at 30-m intervals, surface survey with supplemental judgmental shovel testing, radial shovel testing at 15-m interval to delineate site boundaries and intermediate strategies in areas of somewhat reduced visibility or reduced potential. In appropriate cases, as discussed in the field methods section, judgmental shovel tests were placed in eroded areas that were on promising landforms or did not exhibit eroded attributes at the surface. Figures 4.3-1a through 4.3-1e show the segments, the conditions along the corridor, and the survey coverage by strategy. To provide additional detail on survey within each segment, the following subsections include a brief heading template with summary statistics. Descriptions and recommendations for specific sites investigated within these segments follow the summary statistics. Figures 4.3-2a through 4.3-2e show all sites in the APE on USGS topographic mapping.

Three areas of the APE were not surveyed. The first involves a small, fallow field located behind a high barbed-wired fence in Segment K, for which the owner could not be reached. The field is located just north of Gelder Drive in an area of the tie-in for Fayetteville Road (US 401). Figure 4.3-1b shows the 0.76-acre area (purple shading) that was not surveyed, which would have required intensive survey by shovel testing. The second unsurveyed area involves a cow pasture along the northern edge of the corridor in Segment N. A large, aggressive bull was present in the pasture at the time of survey, and the landowner of the pasture could not be reached to move the animal. Just north of this pasture is 31WA1988, and the site may extend south into this cow pasture. Figure 4.3-1b shows the 1.9 acres (orange shading) that was not surveyed but would have required intensive survey by shovel testing. The third area within the APE that was not surveyed was much larger (55.36 acres). The representative of landowner Mary Ball, LLC, denied access to all of the properties under that name in the western half of Segment O, after initially allowing survey but then deciding to not want any further work conducted. This area is just east of Old Stage Road. Only a small part of the property was actually surveyed before the change in access. This resulted in the recording of one site (31WA1995) based on surface survey, and it was not possible to fully evaluate the site later when attempting to get permission to dig shovel tests or test units. For these reasons the site is marked as unassessed. More information on this site can be found in the site descriptions below. It was also not possible to relocate previously recorded site 31WA1853, an Early Archaic lithic scatter recorded by Jim and Bob Oshnock, which is mapped along the northern boundary of the area in Segment O that was denied access. This site must remain unassessed per the site form



Figure 4.3-1a: Survey Area Conditions and Strategies, Map 1 of 5. Base imagery from ArcGIS Image Service (2017a).



Figure 4.3-1b: Survey Area Conditions and Strategies, Map 2 of 5. Base imagery from ArcGIS Image Service (2017a).



Figure 4.3-1c: Survey Area Conditions and Strategies, Map 3 of 5. Base imagery from ArcGIS Image Service (2017a).





Legend

Survey Methods





Figure 4.3-1d: Survey Area Conditions and Strategies, Map 4 of 5. Base imagery from ArcGIS Image Service (2017a).



Legend **Survey Methods** Previously Surveyed Area (Not Resurveyed), Eroded and Non-Eroded Soils Pedestrian Reconnaissance Only, Eroded Soils Shovel Testing (30-m / 98-ft Interval or Judgmental), Eroded Soils Pedestrian Transects (10-m / 39-ft Interval), Eroded Soils Access Denied, Eroded Soils Shovel Tested at 30-m (98-ft) Interval, Non-Eroded Soils Shovel Tested with Judgmental Test Placement, Non-Eroded Soils Shovel Tested at Expanded Interval, Non-Eroded Soils Pedestrian Transects at 10-m (39-ft) Intervals, Non-Eroded Soils Combined Strategy (Shovel Tests / Pedestrian Transects), Non-Eroded Soils Access Denied, Non-Eroded Soils Horse Pasture - Not Surveyed, Non-Eroded Soils Disturbed / Sloped / Low and Wet, Non-Eroded Soils A Survey Segment with Segment Number



Figure 4.3-1e: Survey Area Conditions and Strategies, Map 5 of 5. Base imagery from ArcGIS Image Service (2017a).



Figure 4.3-2a: Archaeological Resources in the APE, Map 1 of 5. Base imagery from ArcGIS Image Service (2017b).



Figure 4.3-2b: Archaeological Resources in the APE, Map 2 of 5. Base imagery from ArcGIS Image Service (2017b).



Figure 4.3-2c: Archaeological Resources in the APE, Map 3 of 5. Base imagery from ArcGIS Image Service (2017b).



Figure 4.3-2d: Archaeological Resources in the APE, Map 4 of 5. Base imagery from ArcGIS Image Service (2017b).



Figure 4.3-2e: Archaeological Resources in the APE, Map 5 of 5. Base imagery from ArcGIS Image Service (2017b).

since denial of access prevented survey. Figure 4.3-1b shows the area that was not surveyed (purple shading); the majority of the area would have been appropriate for intensive survey by shovel testing.

Fourteen of the previously recorded sites in the APE were previously recommended not eligible for the NRHP when first investigated. These sites were not resurveyed during this project. The sites include 31WA287, 31WA1335, 31WA1347, 31WA1348, 31WA1349, 31WA1350, 1WA1351&1351**, 31WA1352, and 31WA1368, 31WA1899, 31JT325, 31JT326, 31JT327, 31JT328. The boundary for one, 31WA1348, was expanded when survey in an adjacent area detected additional material. Of the nine previously recorded sites that were unassessed for eligibility because they were reported by amateur collectors or were part of noncompliance work, only four were relocated and are recommended not eligible for the NRHP. These include 31WA493&493**, 31WA663&663**, 31WA787&787**, and 31WA1186&1186** and are detailed in the site descriptions that follow this introduction. The remaining five sites could not be relocated based on the survey methods employed or because of lack of access or disturbance. These sites, including 31WA4, 31WA1187, 31WA1403, 31WA1853, and 31WA1855, remain unassessed. However, the survey established that any portion of the sites that may extend into the APE would not contribute to any eligibility, except in the case of 31WA1853, which could not be accessed at all due to the landowner. No evidence of the mound reported on the site form for 31WA4 was encountered, but four non-eligible sites (31WA2035, 31WA2037, 31WA2038, and 31WA2039&2099**) were newly recorded within the site boundary reported on the site form.

As a result of the survey, 138 archaeological resources were newly recorded or resurveyed for evaluation; this total includes two historic cemeteries. Overall, counting all previously recorded sites including those previously not eligible, a total of 156 archaeological resources are located within the APE (Table 4.3-1). Eighteen resources that were previously recorded are not mentioned in the site descriptions below, per the discussion above, as they have already been determined not eligible for the NRHP, they were not relocated during the course of the survey, or they did not involve a boundary expansion. The newly recorded or reinvestigated archaeological resources include 68 sites related to precontact Native American or historic settlement or activity (two previously recorded), 68 isolated finds based upon precontact or historic material, and two historic cemeteries. Individual resource descriptions and recommendations appear below. For reference, Appendix B contains the detailed artifact inventory pertaining to the sites and Appendix C contains a log of representative shovel tests for the sites.

OSA Permanent Site #	STIP/ Segment	Period or Date of Occupation	Site Type	Recommended NRHP Eligibility or Comment
31JT325/ previously recorded	R-2829/V	unattributed	Native American Isolated Find	Previously Determined Not Eligible
31JT326/ previously recorded	R-2829/Y	unattributed	Native American Isolated Find	Previously Determined Not Eligible
31JT327/ previously recorded	R-2829/V	unattributed	Native American Lithic Scatter	Previously Determined Not Eligible
31JT328/ previously recorded	R-2829/V	Late Archaic	Native American Lithic Scatter	Previously Determined Not Eligible

Table 4.3-1: Summary of Archaeological Resources in the Current APE.

OSA Permanent Site #	STIP/ Segment	Period or Date of Occupation	Site Type	Recommended NRHP Eligibility or Comment
31WA4/previously recorded	R-282/CC, EE, and FF	unattributed	Native American Mound Site	Did Not Find Evidence of the Site Within the APE (no evidence of the mound but may be present outside the APE); Smaller Sites Recorded Within the Very General Boundary (see 31WA2035, 31WA2037, 31WA2038, and 31WA2039&2039**); Previously Unassessed But Portion in APE Does Not Contribute to Any Eligibility
31WA287/ previously recorded	R-2829/T	Middle Archaic	Native American Lithic Scatter	Previously Determined Not Eligible
31WA493&493**/ previously recorded	R-2829/RR	Early to Middle Archaic/ unattributed	Native American Scatter/Historic Isolated Find	Previously Unassessed; Site Relocated; Recommended Not Eligible
31WA663&663**/ previously recorded	R-2829/LL	unattributed/ Middle 19 th to Early 20 th century	Native American Scatter, Historic 19 th - Century Griffis Mill Site	Previously Recommended Likely Eligible; Refined Boundary/Mapped Possible Feature Associated with Stone Foundation; Recommended Not Eligible
31WA787&787**/ previously recorded	R-2829/II	Early Archaic to Middle Woodland/ Late 18 th to 20 th century	Native American and Historic Scatter	Previously Unassessed; Site Relocated and Boundary Expanded; Recommended Not Eligible
31WA1186&1186**/ previously recorded	R-2828/S	Early Archaic to Middle Woodland / 18 th to 20 th century	Native American Lithic Scatter/Historic Scatter	Relocated Site and Expanded Boundary; Not Eligible
31WA1187/ previously recorded	R-2829/R	Late Paleoindian to Late Archaic	Native American Lithic Scatter	Did Not Find Evidence of the Site Within the APE But May Extend Outside; Unassessed But Portion in APE Does Not Contribute to Any Eligibility
31WA1335/ previously recorded	R-2829/RR	Middle Woodland	Native American Lithic Scatter	Previously Determined Not Eligible
31WA1347/ previously recorded	R-2829/RR	Early Archaic, Middle Archaic, and Late Woodland	Native American Lithic Scatter	Previously Determined Not Eligible
31WA1348/ previously recorded	R-2829/RR	Late Paleoindian to Middle Archaic	Native American Lithic Scatter	Site Boundary Relocated and Expanded; Previously Determined Not Eligible (Still Recommended Not Eligible)
31WA1349/ previously recorded	R-2829/RR	Early Archaic to Late Archaic	Native American Lithic Scatter	Previously Determined Not Eligible
31WA1350/ previously recorded	R-2829/RR	unattributed	Native American Lithic Scatter	Previously Determined Not Eligible

OSA Permanent Site	STIP/ Segment	Period or	Site Type	Recommended NRHP Eligibility or
π	Segment	Occupation		Comment
31WA1351&1351**/	R-2829/SS	unattributed/	Native American	Previously Determined Not Eligible
previously recorded	R 2029/55	Early to	Lithic Scatter/Historic	The rousily Determined Plot Englore
		Middle 20 th	Domestic Scatter	
	D 0000/00	Century		
31WA1352/	R-2829/SS	Middle Arabaia	Native American	Previously Determined Not Eligible
31WA1368/	R-2829/RR	unattributed	Native American	Previously Determined Not Fligible
previously recorded	R 2025/RR	unutifouted	Lithic Scatter	The rousily Determined Plot Englore
31WA1403/	R-2829/P	Middle to	Native American	Did Not Find Evidence of the Site
previously recorded		Early	Lithic Scatter	Within the APE But May Extend
		Archaic		Outside; Unassessed, But Portion in
				APE Does Not Contribute to Any Fligibility
31WA1853/	R-2829/O	Early	Native American	Unassessed, Unable to Relocate and
previously recorded		Archaic	Lithic Scatter	Survey Because of Denied Access
31WA1855/	R-2829/F	Early to Late	Native American	Did Not Find Evidence of the Site
previously recorded		Archaic	Lithic Scatter	Within the APE But May Extend
				Outside; Unassessed But Portion in APE Does Not Contribute to Any Eligibility
31WA1899/	R-2829/G	unattributed	Native American	Previously Determined Not Eligible
previously recorded			Lithic Scatter	
31JT500	R-2828/T	Woodland	Native American	Not Eligible
			Lithic Scatter	
31WA1959	R-2721/A	unattributed	Native American Lithic Scatter	Not Eligible
31WA1960	R-2721/A	unattributed	Native American	Not Eligible
			Isolated Find	
31WA1961	R-2721/A	unattributed	Native American Lithic Scatter	Not Eligible
31WA1962	R-2721/A	unattributed	Native American	Not Eligible
0.1W1+ 4.0.70	D 0701/1		Isolated Find	
31WA1963	R-2/21/A	unattributed	Native American	Not Eligible
31WA1964	R-2721/B	unattributed	Native American	Not Eligible
	/		Lithic Scatter	
31WA1965	R-2721/B	unattributed	Native American	Not Eligible
31WA1966	R_2721/B	unattributed	Isolated Find	Not Eligible
51 WA1900	R-2/21/D	unattributed	Isolated Find	Not Englote
31WA1967	R-2721/B	unattributed	Native American	Not Eligible
			Isolated Find	
31WA1968	R-2721/C	Middle	Native American	Not Eligible
21WA 1060	D 2721/C	Archaic	Isolated Find	Not Elizible
51 W A1707	K-2/21/U	unaturouted	Lithic Scatter	NOT Eligible
31WA1970	R-2721/D	unattributed	Native American	Not Eligible
			Lithic Scatter	
31WA1971	R-2721/E	unattributed	Native American	Not Eligible
31WA1972	R-2721/F	unattributed	Native American	Not Eligible
51 111712	IX 2/21/L	anathrouted	Isolated Find	The Difficie

OSA Permanent Site #	STIP/ Segment	Period or Date of	Site Type	Recommended NRHP Eligibility or Comment
	Segment	Occupation		
31WA1973&1973**	R-2721/F	unattributed/ 19 th to 20 th century	Native American Lithic Scatter/Historic Isolate	Not Eligible
31WA1974	R-2721/F	unattributed	Native American Isolated Find	Not Eligible
31WA1975	R-2721/F	unattributed	Native American Isolated Find	Not Eligible
31WA1976&1976**	R-2721/F	unattributed/ 19 th to 20 th century	Native American Isolated Find/ Historic Isolated Find	Not Eligible
31WA1977**	R-2721/G	19 th to 20 th century	Historic Scatter	Not Eligible
31WA1978&1978**	R-2721/G	unattributed/ 19 th to 20 th century	Native American Lithic Scatter/Historic Scatter	Not Eligible (may be extension of 31WA1899)
31WA1979	R-2721/H	Middle to Late Woodland	Native American Isolated Find	Not Eligible
31WA1980	R-2721/I	unattributed	Native American Isolated Find	Not Eligible
31WA1981	R-2721/J	Woodland	Native American Scatter	Not Eligible
31WA1982	R-2721/J	unattributed	Native American Isolated Find	Not Eligible
31WA1983&1983**	R-2721/K	Late Archaic to Woodland/1 9 th to 20 th century	Native American Lithic Scatter/Historic Scatter	Not Eligible
31WA1984**	R-2721/K	1825-1964	McCullers Family Cemetery	Not Eligible
31WA1985&1985**	R-2721/K	Late Archaic to Late Woodland/1 8 th to mid- 20 th century	Native American Lithic Scatter/Historic Scatter	Not Eligible
31WA1986**	R-2721/K	19 th to 20 th century	Historic Structure Ruin Near 31WA1984**	Not Eligible (Not Previously Recorded as Above-Ground Resource)
31WA1988	R-2828/M	unattributed	Native American Lithic Scatter	Not Eligible
31WA1989	R-2828/N	unattributed	Native American Lithic Scatter	Not Eligible
31WA1990	R-2828/N	unattributed	Native American Isolated Find	Not Eligible
31WA1991&1991**	R-2828/N	Early Archaic to Late Archaic/ 19 th to 20 th century	Native American Lithic Scatter/Historic Scatter	Portion in APE Does Not Contribute to Any Eligibility

OSA Permanent Site	STIP/	Period or	Site Type	Recommended NRHP Eligibility or
#	Segment	Date of		Comment
		Occupation		
31WA1992	R-2828/N	unattributed	Native American Lithic Scatter	Not Eligible
31WA1993**	R-2828/N	Late 18 th to	Historic Scatter	Not Eligible
		mid-20 th century		
31WA1994&1994**	R-2828/N	unattributed/	Native American	Not Eligible
		unattributed	Lithic Scatter/Historic Isolate	
31WA1995	R-2828/O	Early to	Native American	Unassessed; Unable to Complete Survey
		Middle Archaic	Lithic Scatter	Because of Denied Access
31WA1996	R-2828/O	unattributed	Native American	Not Eligible
			Isolated Find	
31WA1997&1997**	R-2828/P	Early	Native American	Eligible Under Criterion D
		Archaic to	Lithic	
		Middle Weedland/	Scatter/Historic	
		10^{th} to 20^{th}	Scatter	
		century		
31WA1998	R-2828/P	Late Archaic	Native American	Not Eligible
			Isolated Find	
31WA1999	R-2828/P	unattributed	Native American	Not Eligible
			Isolated Find	
31WA2000	R-2828/Q	Middle	Native American	Portion in APE Does Not Contribute to
		Archaic to	Lithic Scatter	Any Eligibility
		Middle Waadland		
21WA2001	P 2828/0	woodland	Nativo Amorican	Not Eligible
51 W A2001	K-2828/Q	unaturbuted	Isolated Find	Not Eligible
31WA2002	R-2828/O	unattributed	Native American	Not Eligible
			Isolated Find	e e e
31WA2003	R-2828/Q	unattributed	Native American	Not Eligible
			Lithic Scatter	
31WA2004	R-2828/Q	unattributed	Native American Isolated Find	Not Eligible
31WA2005	R-2828/Q	unattributed	Native American	Not Eligible
			Lithic Scatter	
31WA2006&2006**	R-2828/Q	unattributed/	Native American	Not Eligible
		18^{m} to 20^{m}	Lithic Isolate /Historic	
21WA2007	D 2929/0	century	Scatter	Not Elizible
51 W A2007	R-2828/Q	unattributed	Isolated Find	Not Eligible
31WA2008&2008**	R-2828/R	Middle to	Native American	Not Eligible
		Late	Lithic Scatter/Historic	e e e
		Archaic/ 19 th	Scatter	
		to 20^{th}		
	L	century		
31WA2009&2009**	R-2828/R	Middle	Native American	Not Eligible
		woodland/	Lunic Scatter/Historic	
L		unaturbuteu	1501at	
OSA Permanent Site	STIP/	Period or	Site Type	Recommended NRHP Eligibility or
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#	Segment	Date of		Comment
		Occupation		
31WA2010	R-2828/R	unattributed	Native American	Not Eligible
51 WA2010	K-2020/K	unattributed	Isolated Find	Not Eligible
31WA2011	R-2828/S	unattributed	Native American	Not Eligible
510/12011	R 2020/5	unutifouted	Isolated Find	The Englishe
31WA2012	R-2828/T	Possible	Native American	Not Eligible
010012012	11 2020/1	Late Archaic	Isolated Find	1.00 2
31WA2013	R-2828/T	unattributed	Native American	Not Eligible
			Isolated Find	6
31WA2018	R-2829/W	unattributed	Native American	Not Eligible
			Isolated Find	6
31WA2019	R-2829/W	Middle	Native American	Not Eligible
		Woodland	Scatter	<u> </u>
31WA2020	R-2829/W	Middle	Native American	Not Eligible
		Woodland	Scatter	
31WA2021	R-2829/X	unattributed	Native American	Not Eligible
			Isolated Find	
31WA2022	R-2829/X	unattributed	Native American	Not Eligible
			Lithic Scatter	
31WA2023	R-2829/X	unattributed	Native American	Not Eligible
			Lithic Scatter	
31WA2024	R-2829/X	unattributed	Native American	Not Eligible
			Isolated Find	
31WA2025	R-2829/X	unattributed	Native American	Not Eligible
			Isolated Find	
31WA2026	R-2829/X	unattributed	Native American	Not Eligible
211114.2027	D 2020 M		Isolated Find	NY
31WA2027	R-2829/Y	unattributed	Native American	Not Eligible
21304 2029	D 2920/CC		Isolated Find	N-4 El: -: 1-1-
51 W A2028	K-2829/CC	unattributed	Native American	Not Eligible
21WA2020	P 2820/CC	unottributod	Notivo Amoricon	Not Elizible
51 W A2029	K-2029/CC	unaturbuteu	Isolated Find	Not Eligible
31WA2030&2030**	R-2829/CC	unattributed/	Native American	Not Fligible
51 11 2050 2050	R 2025/CC	unattributed	Isolate Find /Historic	Not Eligible
		unattributed	Isolated Find	
31WA2031	R-2829/CC	unattributed	Native American	Not Eligible
			Isolated Find	
31WA2032	R-2829/DD	Early	Native American	Not Eligible
		Archaic	Lithic Scatter	
31WA2033	R-2829/DD	unattributed	Native American	Not Eligible
			Isolated Find	
31WA2034	R-2829/EE	Early to	Native American	Not Eligible
		Middle	Scatter	
		Woodland		
31WA2035	R-2829/EE	unattributed	Native American	Not Eligible
			Isolated Find	
31WA2036	R-2829/EE	Middle	Native American	Not Eligible
		Woodland	Isolated Find	
31WA2037	R-2829/EE	unattributed	Native American	Not Eligible
			Isolated Find	

OSA Permanent Site	STIP/	Period or	Site Type	Recommended NRHP Eligibility or
#	Segment	Date of Occupation		Comment
31WA2038	R-2829/EE	unattributed	Native American Lithic Scatter	Not Eligible
31WA2039&2039**	R-2829/EE	Early to Late Archaic/ 19 th to 20 th century	Native American Scatter/Historic Isolated Find	Not Eligible
31WA2040	R-2829/FF	unattributed	Native American Isolated Find	Not Eligible
31WA2041	R-2829/FF	unattributed	Native American Isolated Find	Not Eligible
31WA2042	R-2829/FF	unattributed	Native American Lithic Scatter	Not Eligible
31WA2043	R-2829/FF	unattributed	Native American Isolated Find	Not Eligible
31WA2044	R-2829/FF	unattributed	Native American Lithic Scatter	Not Eligible
31WA2045	R-2829/FF	unattributed	Native American Lithic Scatter	Not Eligible
31WA2046	R-2829/GG	unattributed	Native American Isolated Find	Not Eligible
31WA2047	R-2829/GG	unattributed	Native American Isolated Find	Not Eligible
31WA2048&2048**	R-2829/II	Middle Archaic/ 19 th to 20 th century	Native American and Historic Scatter	Not Eligible
31WA2049	R-2829/II	unattributed	Native American Lithic Scatter	Not Eligible
31WA2050	R-2829/II	unattributed	Native American Isolated Find	Not Eligible
31WA2051	R-2829/II	unattributed	Native American Isolated Find	Not Eligible
31WA2052	R-2829/II	unattributed	Native American Isolated Find	Not Eligible
31WA2053	R-2829/II	unattributed	Native American Isolated Find	Not Eligible
31WA2054**	R-2829/II	19 th to 20 th century	Historic Isolated Find	Not Eligible
31WA2055	R-2829/II	unattributed	Native American Isolated Find	Not Eligible
31WA2056	R-2829/II	unattributed	Native American Isolated Find	Not Eligible
31WA2057	R-2829/II	unattributed	Native American Isolated Find	Not Eligible
31WA2058	R-2829/II	unattributed	Native American Isolated Find	Not Eligible
31WA2059	R-2829/II	unattributed	Native American Isolated Find	Not Eligible
31WA2060	R-2829/II	unattributed	Native American Isolated Find	Not Eligible

OSA Permanent Site #	STIP/ Segment	Period or Date of	Site Type	Recommended NRHP Eligibility or Comment
	Sognone	Occupation		
31WA2061&2061**	R-2829/JJ	unattributed/ 19 th to 20 th century	Native American Lithic Scatter/ Historic Isolated Find	Not Eligible
31WA2062&2062**	R-2829/JJ	unattributed/ Late 19 th to 20 th century	Native American and Historic Scatter/Structure	Not Eligible
31WA2063	R-2829/JJ	Woodland	Native American Scatter	Not Eligible
31WA2064	R-2829/KK	unattributed	Native American Isolated Find	Not Eligible
31WA2065	R-2829/KK	Middle Woodland	Native American Scatter	Not Eligible
31WA2066&2066**	R-2829/KK	unattributed/ 19 th to 20 th century	Native American and Historic Scatter	Not Eligible
31WA2067&2067**	R-2829/KK	unattributed/ unattributed	Native American Isolated Find/Historic Isolated Find	Not Eligible
31WA2068	R-2829/KK	unattributed	Native American Lithic Scatter	Not Eligible
31WA2069	R-2829/KK	Late Archaic	Native American Lithic Scatter	Not Eligible
31WA2070	R-2829/KK	Middle Woodland	Native American Isolated Find	Not Eligible
31WA2071	R-2829/KK	unattributed	Native American Lithic Scatter	Not Eligible
31WA2072	R-2829/LL	unattributed	Native American Isolated Find	Not Eligible
31WA2073	R-2829/LL	unattributed	Native American Isolated Find	Not Eligible
31WA2074&2074**	R-2829/LL	unattributed/ unattributed	Native American Scatter/ Historic Isolated Find	Not Eligible
31WA2075	R-2829/LL	Early to Middle Woodland	Native American Isolated Find	Not Eligible
31WA2076**	R-2829/LL	19 th to 20 th century	Remnants of Historic Stone Structure Including Portion of Wall (Possible Griffis Mill House)	Not Eligible
31WA2077	R-2829/LL	unattributed	Native American Isolated Find	Not Eligible
31WA2078	R-2829/LL	unattributed	Native American Isolated Find	Not Eligible
31WA2079	R-2829/LL	unattributed	Native American Scatter	Not Eligible
31WA2080	R-2829/MM	unattributed	Native American Lithic Scatter	Not Eligible
31WA2081	R-2829/NN	unattributed	Native American Lithic Scatter	Not Eligible

OSA Permanent Site #	STIP/ Segment	Period or Date of Occupation	Site Type	Recommended NRHP Eligibility or Comment
31WA2082&2082**	R-2829/NN	Middle Archaic to Middle Woodland/ Early 19 th to 20 th century	Native American and Historic Scatter	Not Eligible
31WA2083	R-2829/NN	unattributed	Native American Isolated Find	Not Eligible
31WA2084	R-2829/NN	unattributed	Native American Isolated Find	Not Eligible
31WA2085	R-2829/OO	Woodland	Native American Scatter	Not Eligible
31WA2086	R-2829/OO	unattributed	Native American Lithic Scatter	Not Eligible
31WA2087	R-2829/OO	Middle Woodland	Native American Scatter	Not Eligible
31WA2088	R-2829/PP	Woodland	Native American Scatter	Not Eligible
31WA2089	R-2829/PP	unattributed	Native American Lithic Scatter	Not Eligible
31WA2090	R-2829/PP	Woodland	Native American Isolated Find	Not Eligible
31WA2091	R-2829/PP	unattributed	Native American Isolated Find	Not Eligible
31WA2092	R-2829/QQ	unattributed	Native American Lithic Scatter	Not Eligible
31WA2093	R-2829/RR	unattributed	Native American Lithic Scatter	Not Eligible
31WA2094	R-2829/RR	unattributed	Native American Lithic Scatter	Not Eligible
31WA2095**	R-2829/RR	1921-1928	Historic Cemetery	Not Eligible

4.3.2 Results of the Archaeological Survey by STIP Project and Segment

STIP R-2721

Segment A (STIP R-2721)	
Length	2,237.20 m (7,339.91 ft)
Area	82.87 ha (204.77 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	28.83 ha (71.25 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	1.93 ha (4.76 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	15.40 ha (38.06 acres)
Total Area Shovel Tested with Judgmental Test Placement	1.08 ha (2.68 acres)
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	2.44 ha (6.02 acres)
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	33.18 ha (82.00 acres)
Total # of Shovel Tests	276
Total # Sites Documented	2
Total # Isolated Finds Documented	3

Table 4.3-2:Segment A Survey Summary.

Segment A represents the western terminus of the project. The segment, which is approximately 2,237.20 m (7,339.91 ft) long, begins at SR-55 and extends east and southeast to Sunset Lake Road east of Williams Street (see Figure 4.3-1a). This is one of the longest segments in the project. Soils within Segment A consist predominantly of Creedmoor, Herndon, and Wehadkee and Bibb soils, with Worsham, Enon, Georgeville, but other soils are also present. The most extensive single soil unit in the segment is Creedmoor sandy loam, 6 to 10 percent slopes, moderately eroded. These soils are classified as well drained, to moderately well drained, to poorly drained. At the time of the survey, the ground cover consisted of a mix of woods, disturbed areas—both open and wooded—and developed areas. Williams Street cuts across the eastern half of the segment. The areas of Segment A that are within expressway ramps and adjacent to the end of the existing portion of I-540 are disturbed. East of Williams Street, a large, steep-sided spoil pile that has become overgrown with trees is located near the southern edge of the segment, and steep-sided berms bounded the disturbed area to the south and east. West of Williams Street, Segment A consists of recent housing developments surrounding wooded drainages. In some places, the back yards of the houses had been extensively filled and built-up to create level surfaces above the slopes down to the drainages. Wetland areas are located in many of the drainage bottoms. Ground surface visibility was near zero percent throughout the segment. Segment A was surveyed with shovel tests excavated at 30-m (98-ft) intervals and with visual inspection at 30-m (98-ft) intervals. Areas directly around houses and commercial buildings were avoided because of the likelihood for buried utilities and disturbance. Survey resulted in the identification of five archaeological sites in Segment A (see Figure 4.3-2a). Test units for in-depth evaluation were excavated at site 31WA1959 following the initial survey.

STATE SITE NUMBER: 31WA1959

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Herndon silt loam, 6 to 10 percent slopes

SITE SIZE: 49 x 43 m (162 x 140 ft)

SELECTED ARTIFACTS: quartz retouched flakes, quartzite decortication flakes, quartz bifacial thinning flakes, plagioclase porphyritic rhyolite interior flakes, quartz interior flakes, quartz shatter

COMMENTS: The site was initially encountered while shovel testing in a wooded area situated on the edge of stream terrace above an extensive low and wet area (Figures 4.3-3 and 4.3-4). The artifacts recovered during shovel testing derived from Zone 2 of four positive tests at the site. These items include a quartz bifacial thinning flake, a retouched quartz flake, and 34 quartz interior flakes. Shovel testing revealed a three-zone soil profile at the site: Zone 1, a brown (10YR 3/2) silty loam A-horizon approximately 12 cm in thickness; Zone 2, a brownish yellow (10YR 6/6) sandy loam transition approximately 20 cm in thickness; and Zone 3, a reddish yellow (7.5YR 6/8) sandy clay subsoil.

IN DEPTH EVALUATION: Two 1-x-1-m test units were excavated based on the close proximity of the positive shovel tests to an active drainage, as well as the high density of lithic materials recovered from Shovel Tests 2 and 13. Although the positive shovels tests, and subsequently the test units excavated, yielded an abundance of lithic materials, no features or intact buried deposits were encountered, and no temporally diagnostic materials were recovered from the site.

Test Unit 1 was placed between Shovel Tests 1 and 2. The unit contained 341 lithic artifacts nearly four times the amount of artifacts recovered from Test Unit 2 (Table 4.3-3). Excavation of the Test Unit 1 revealed a three-zone soil profile: Zone 1, a dark grayish brown (10YR 4/2) sandy loam A-horizon 16 cm in thickness; Zone 2, a light olive brown (2.5Y 5/3) silty loamy 16 cm in thickness; and Zone 3, a yellowish brown (10YR 5/8) silty loam subsoil. Moderate root disturbance was present in the first two zones, and all zones contained evidence of bioturbation. This was especially prevalent in the west half of the unit as illustrated in Figures 4.3-5 and 4.3-6. A large stain in the southwest corner of the unit at 32 cmbs was caused by a void left by a tree stump; this disturbance extended all the way to the bottom of the unit. Initially, the stain was excavated as a possible feature until it became clear that it was non-cultural.

Test Unit 1 exhibited the pattern of decreasing artifact density with each level excavated, with Zone 1 having the highest concentration of materials (133 of the 341 artifacts located in the unit). With the exception of an unmodified quartzite pebble, the unit contained only quartz artifacts. These items include retouched flakes, bifacial thinning flakes, interior flakes, shatter, fragments, and unmodified pebbles (see Table 4.3-3).

Test Unit 2 was placed between Shovel Tests 1 and 13 (Table 4.3-4). Excavation of the unit revealed a four-zone stratigraphy: Zone 1, a brown (10YR 4/3) sandy loam A-horizon 12 cm in thickness; Zone 2, a brownish yellow (10YR 6/6) sand clay loam transition 10 cm in thickness;



Figure 4.3-3: Map of Site 31WA1959. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-4: View of Site 31WA1959, Looking Southwest.



Figure 4.3-5: Site 31WA1959, Test Unit 1, Sketch of West Profile.



Figure 4.3-6: 31WA1959, Test Unit 1, Photograph of West Profile.



Figure 4.3-7: Site 31WA1959, Test Unit 2, Sketch of North Profile.



Figure 4.3-8: 31WA1959, Test Unit 2, Photograph of North Profile.

Object	Zone/Level	Count	Percentage in Test Unit
Quartz Bifacial Thinning Flake	1/1	4	1.17%
Quartz Interior Flake	1/1	119	34.90%
Quartz Shatter	1/1	4	1.17%
Quartz Fragment	1/1	2	0.59%
Quartz Unmodified Pebble	1/1	3	0.88%
Quartzite Unmodified Pebble	1/1	1	0.29%
Quartz Retouched Flake	2/1	1	0.29%
Quartz Interior Flake	2/1	79	23.17%
Quartz Shatter	2/1	3	0.88%
Quartz Unmodified Pebble	2/1	3	0.88%
Quartz Bifacial Thinning Flake	2/2	1	0.29%
Quartz Interior Flake	2/2	26	7.62%
Quartz Shatter	2/2	1	0.29%
Quartz Unmodified Pebble	2/2	3	0.88%
Quartz Interior Flake	3/1	20	5.87%
Quartz Unmodified Pebble	3/1	2	0.59%
Quartz Interior Flake	Feature 1	68	19.94%
Quartz Shatter	Feature 1	1	0.29%
Total		341	100.00%

Table 4.3-3: Summary of Artifacts Recovered from 31WA1959, Test Unit 1 by Zone and Level.

Table 4.3-4: S	Summary of Artifacts	Recovered from	31WA1959, 7	Fest Unit 2 by	y Zone and Level.
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Object	Zone/Level	Count	Percentage in Test Unit
Plagioclase Porphyritic Rhyolite Interior Flake	1/1	3	3.41%
Quartz Interior Flake	1/1	8	9.09%
Metavolcanic Interior Flake	2/1	1	1.14%
Plagioclase Porphyritic Rhyolite Interior Flake	2/1	2	2.27%
Quartz Interior Flake	2/1	14	15.91%
Plagioclase Porphyritic Rhyolite Flake Fragment	2/1	1	1.14%
Plagioclase Porphyritic Rhyolite Interior Flake	3/1	8	9.09%
Quartz Interior Flake	3/1	30	34.09%
Rhyolitic Breccia Interior Flake	3/1	3	3.41%
Plagioclase Porphyritic Rhyolite Flake Fragment	3/1	1	1.14%
Quartz Unmodified Pebble	3/1	1	1.14%
Quartzite Decortication Flake	3/2	1	1.14%
Aphyric Rhyolite Interior Flake	3/2	1	1.14%
Quartz Interior Flake	3/2	10	11.36%
Plagioclase Porphyritic Rhyolite Flake Fragment	3/2	1	1.14%
Quartz Unmodified Pebble	3/2	1	1.14%
Quartz Interior Flake	3/3	2	2.27%
Total		88	100.00%

Zone 3, a yellowish brown (10YR 5/6) sandy clay loam transition 10 cm in thickness; Zone 4, a very pale brown (10YR 7/3) sandy clay loam subsoil mottled with brownish yellow (10YR 6/8) sandy clay loam (Figure 4.3-7 and 4.3-8). This unit differed from Test Unit 1 in that, the highest density of artifacts derived from Zone 3, rather than Zone 2 of the test. The concentration of material in Zone 3 of the test unit is likely the result of bioturbation. Metavolcanic debitage was found in all but the last level (Zone 3/Level 3) of the unit (see Table 4.3-4). The artifacts recovered from Test Unit 2 include decortication flakes, interior flakes, flake fragments, shatter, and unmodified pebbles. The artifacts from this unit are markedly different from those found in Test Unit 1. Whereas, the material from Test Unit 1 are entirely quartz, the material from Test Unit 2 include aphyric rhyolite, metavolcanic, plagioclase porphyritic rhyolite, quartzite, and rhyolitic breccia, in addition to quartz.

The majority of the artifacts recovered from Test Units 1 and 2 are secondary debitage (e.g., flakes, bifacial thinning, and shatter), which suggests that lithic reduction was a primary focus at this site (Table 4.3-5). As mentioned above, when comparing the two test units, it is clear that the artifact raw material types located in Test Unit 1 are quite different than those derived from Test Unit 2.

Object	Count
Quartz Retouched Flake	2
Quartzite Decortication Flake	1
Quartz Bifacial Thinning Flake	6
Aphyric Rhyolite Interior Flake	1
Metavolcanic Interior Flake	1
Plagioclase Porphyritic Rhyolite Interior Flake	13
Quartz Interior Flake	410
Rhyolitic Breccia Interior Flake	3
Plagioclase Porphyritic Rhyolite Flake Fragment	3
Quartz Shatter	9
Quartz Fragment	2
Quartz Unmodified Pebble	13
Quartzite Unmodified Pebble	1
Total	465

Table 4.3-5: Summary of Artifacts Recovered from 31WA1959.

Another interesting aspect of the site is that it is situated downslope at a considerable distance from the top of a landform located to the east, yet it has a much higher artifact density than most other sites recorded farther up slope on the landforms. This may suggest that the site was formed in a colluvial wash down the slope from the other sites. Although, if that was the case, a wider and more diffuse scatter would be expected. The small site area and high density of lithic artifacts representing secondary lithic reduction, suggests that this location was an actual locus of tool production. This is notable since no sources of quartz raw material appear to occur locally within the immediate vicinity of the site. The fact that the material from Test Unit 1 is almost entirely quartz may be consistent with a limited occupation range—reflecting a rare snapshot of behavior rather than a portrait of an accretional site. **RECOMMENDATIONS:** Despite the relatively intact natural stratigraphy and high density of artifacts representing a specific behavior focus (lithic reduction), this site has been subject to bioturbation and appears to lack internal structure and artifact patterning that would yield further insight into activities represented by the assemblage or the period of occupation. Chiarulli et al. (2001) have examined in detail the issue of survey and evaluation of simple and multicomponent lithic scatters in upland settings, in their case in Pennsylvania. They emphasize that many common research questions regarding subsistence, trade, exchange, and social organization must rely on information from datable contexts or when lithic materials show strong temporal correlations (Chiarulli et al. 2001:5-5). They dispel the notion that most upland sites are "worthless quartz scatters" and support the need for a policy of upland survey coverage but also define sites with research potential (beyond the survey level at the site level and regional settlement analysis level) as single component sites with reliable dating or multicomponent sites with sufficient patterning to provide datable contexts with potential for illuminating site function and occupation span (Chiarulli et al. 2001:4-8, 5-5). Using this lens, it is too simplistic to view Site 31WA1959 as inconsequential since it lacks features and diagnostic artifacts. Rather, within the framework of the region, the site could be viewed as providing information, albeit subtle, regarding raw material patterning and activity area concentrations at lithic reduction sites related to nearby dated sites. Unfortunately, the site did not yield evidence suggesting strong spatial patterns or even the potential to glean temporal or behavioral patterns through comparison to other sites. It is unlikely that this site would further provide information on Native American lifeways of the Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP Criteria A, B, C, or D

SITE NUMBER: 31WA1960

SITE TYPE: Native American isolated find

SOIL TYPE: Herndon silt loam, 6 to 10 percent slopes

SITE SIZE: 19 x 3 m (61 x 10 ft)

SELECTED ARTIFACTS: quartz biface fragment, quartz retouched flake, quartz interior flake **COMMENTS:** The isolated find was recovered from two positive shovel tests excavated on a forested upland flat. A quartz biface fragment, a quartz interior flake, and a quartz retouched flake were recovered from Zone 1 of the positive tests. Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material.

RECOMMENDATIONS: These artifacts lack sufficient context for further interpretation and the location is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP Criteria A, B, C, or D.

SITE NUMBER: 31WA1961

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Herndon silt loam, 6 to 10 percent slopes

SITE SIZE: 10 x 10 m (32 x 32 ft)

SELECTED ARTIFACTS: aphyric rhyolite interior flakes, quartz interior flakes **COMMENTS:** The site was recorded during shovel testing in a planted pine forest situated on a gentle side slope (Figures 4.3-9 and 4.3-10). The artifacts recovered at the site (n=5) were



Figure 4.3-9: Map of Site 31WA1961. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-10: View of Site 31WA1961, Looking Southwest.

derived from Zone 2 of a single shovel test. These items include three quartz interior flakes and two aphyric rhyolite interior flakes. The soil profile of this positive shovel test consisted of three zones: Zone 1, a light yellowish brown (10YR 6/4) silty loam A-horizon 10 cm in thickness; Zone 2, a light gray (10YR 7/2) sand layer 22 cm in thickness; and Zone 3, a light gray (10YR 7/2) sand mottled with reddish yellow (10YR 6/8) sandy clay. The presence of artifacts in Zone 2 of the positive test is likely the result of bioturbation.

RECOMMENDATIONS: This low-density lithic scatter indicates Native American activity in the general location but is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA1962

SITE TYPE: Native American isolated find *SOIL TYPE:* Herndon silt loam, 2 to 6 percent slopes *SITE SIZE:* 10 x 10 m (32 x 32 ft)

SELECTED ARTIFACTS: quartz interior flake

COMMENTS: A single quartz interior flake was encountered while shovel testing in a planted pine forest situated in an upland area. This artifact was located in Zone 2 of a positive shovel test. The presence of cultural material in Zone 2 of the positive test is likely the result of bioturbation. Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material.

RECOMMENDATIONS: This artifact lacks sufficient context for further interpretation and the location is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA1963

SITE TYPE: Native American isolated find

SOIL TYPE: Creedmoor sandy loam, 2 to 6 percent slopes, moderately eroded

SITE SIZE: 11 x 11 m (36 x 36 ft)

SELECTED ARTIFACTS: quartz interior flakes

COMMENTS: This isolated find was recovered while shovel testing in a planted pine forest situated on the edge of an upland flat. Two quartz interior flakes and two aphyric rhyolite interior flakes were recovered from Zone 2 of a positive test. The presence of cultural material in Zone 2 of the positive test is likely the result of bioturbation. Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material.

RECOMMENDATIONS: This set of artifacts lack sufficient context for further interpretation and the location is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D. Table 4.3-6:Segment B Survey Summary.

Segment B (STIP R-2721)	
Length	1,746.18 m (5,728.95 ft)
Area	65.91 ha (162.86 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	26.53 ha (65.30 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	12.95 ha (31.99 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	26.52 ha (65.57 acres)
Total # of Shovel Tests	133
Total # Sites Documented	1
Total # Isolated Finds Documented	3

Segment B is approximately 1,746.18 m (5,728.95 ft) long and begins and ends at Sunset Lake Road, extending across a bend in the road from west of River Falls Drive to east of Bellagio Drive (see Figure 4.3-1a). Roughly half of Segment B is covered by soils of the Cecil series, with Worsham, Appling, Georgeville, but other soils are also present. The most extensive single soil unit in the segment is Cecil gravelly sandy loam, 6 to 10 percent slopes. Cecil, Appling, and Georgeville soils are classified as well-drained, while Worsham soils are classified as poorly drained. At the time of the survey, the ground cover primarily consisted of woods, with some areas disturbed by recent development along River Falls Drive, Mystic Pine Place, and Mayfield Drive. Ground surface visibility was very low throughout the segment. Segment B was surveyed with shovel tests excavated at 30-m (98-ft) intervals and with visual inspection at 30-m (98-ft) intervals. Areas directly around houses and commercial buildings were avoided because of the likelihood for buried utilities and disturbance. Survey resulted in the identification of one archaeological site and three isolated finds in Segment B (see Figure 4.3-2a).

SITE NUMBER: 31WA1964

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Georgeville silt loam, 6 to 10 percent slopes

SITE SIZE: 60 x 18 m (197 x 59 ft)

SELECTED ARTIFACTS: quartz interior flakes, quartz shatter

COMMENTS: This low density lithic scatter was encountered during shovel testing on a wooded stream terrace situated south of Sunset Lake Road on the northern edge of Segment B (Figures 4.3-11 and 4.3-12). The artifact assemblage (n=11) was recovered from five



Figure 4.3-11: Map of Site 31WA1964. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-12: View of Site 31WA1964, Looking North.

positive shovel tests, and includes ten quartz interior flakes and a piece of quartz shatter. Most of these items were recovered from Zone 1 of the positive tests; however, two interior flakes derived from Zone 2 of two positive tests. The presence of cultural materials in Zone 2 is likely the result of bioturbation. The typical soil profile revealed during testing at the site consists of three zones: Zone 1, a dark yellowish brown (10YR 3/6) sandy loam A-horizon approximately 15 cm in thickness; Zone 2, a yellow (2.5Y 7/6) fine sand E-horizon approximately 10 cm in thickness; and Zone 3, a yellow (10YR 7/6) sandy clay subsoil. Shovel Tests 5 and 14 revealed disturbed soils, an issue likely resulting from the construction of Sunset Lake Road, situated just to the north. The function of the site is indeterminate due to the paucity of artifacts.

RECOMMENDATIONS: Given the low density of artifacts and the possibility of erosion, this site lacks the potential to provide additional information on the Native American settlement of the Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA1965

SITE TYPE: Native American isolated find

SOIL TYPE: Cecil gravelly sandy loam, 2 to 6 percent slopes, moderately eroded

SITE SIZE: 10 x 10 m (32 x 32 ft)

SELECTED ARTIFACTS: quartz interior flake

COMMENTS: A single quartz interior flake was recovered during shovel testing in a mature forest situated on the edge of an upland flat. The artifact recorded derived from Zone 1 of a positive shovel test. Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material.

RECOMMENDATIONS: This artifact lacks sufficient context for further interpretation and is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA1966

SITE TYPE: Native American isolated find

SOIL TYPE: Cecil gravelly sandy loam, 6 to 10 percent slopes, moderately eroded

SITE SIZE: 10 x 10 m (32 x 32 ft)

SELECTED ARTIFACTS: quartz interior flake

COMMENTS: A single quartz interior flake was recovered while shovel testing in a mixed secondary forest situated on an upland flat. This flake derived from Zone 2 of a positive shovel test. The location of the artifact in Zone 2 of the test resulted from bioturbation. Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material.

RECOMMENDATIONS: The isolate lacks sufficient context for further interpretation and is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA1967

SITE TYPE: Native American isolated find *SOIL TYPE:* Cecil gravelly sandy loam, 2 to 6 percent slopes, moderately eroded *SITE SIZE:* 10 x 10 m (32 x 32 ft) *SELECTED ARTIFACTS:* quartz interior flakes **COMMENTS:** Two quartz flakes were recovered during shovel testing in a mixed secondary forest situated on a gentle side slope resting on the edge of an upland area. This pair of artifacts derived from Zone 1 of a single positive shovel test. Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material.

RECOMMENDATIONS: These artifacts lack sufficient context for further interpretation and are unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

Segment C (STIP R-2721)	
Length	964.85 m (3,165.51 ft)
Area	57.18 ha (141.30 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	27.50 ha (67.95 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	.79 ha (1.95 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	1.80 ha (4.45 acres)
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	10.49 ha (25.91 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	16.61 ha (41.04 acres)
Total # of Shovel Tests	295
Total # Sites Documented	1
Total # Isolated Finds Documented	1

Table 4.3-7:Segment C Survey Summary.

Segment C, which is approximately 964.85 m (3,165.51 ft) long, extends from Sunset Lake Road in the west to Holy Springs Road in the east (see Figure 4.3-1a). The segment crosses Kildare Farm Road, extending over 560 m (1,837 ft) north along the road from the main corridor. This segment of the APE also extends a total of about 1,953 m along Sunset Lake Road and about 1,237 m along Holy Springs Road. Soils within Segment C consist predominantly of the Appling, Cecil, and Wehadkee series. Appling gravelly sandy loam covers approximately half of the segment area, and the most extensive single soil unit in the segment is Appling gravelly sandy loam, 2 to 6 percent slopes, moderately eroded. Appling and Cecil soils are classified as well-drained, while Wehadkee soils are classified as poorly drained. At the time of the survey, the ground cover primarily consisted of woods, recently logged areas, and residential lots with no ground surface visibility. Two artificial ponds are located within Segment C, encompassing a total area of approximately 0.62 ha (1.56 acres). Ground surface visibility was near zero percent throughout the segment. This segment was surveyed with shovel tests excavated at 30-m (98-ft) intervals and with visual inspection at 30-m (98-ft) intervals. Areas directly around houses were avoided because of the likelihood for buried utilities and disturbance. Shovel testing was limited in the recently logged area due to the impassibility of the brambles and brush across much of the area. Survey resulted in the identification of one archaeological site and one isolated find in Segment C (see Figure 4.3-2a).

SITE NUMBER: 31WA1968

SITE TYPE: Native American isolated find, Middle Archaic

SOIL TYPE: Cecil sandy loam, 10 to 15 percent slopes

SITE SIZE: 67 x 10 m (220 x 34 ft)

SELECTED ARTIFACTS: Stanly Stemmed point, quartz decortication flake, quartz interior flake

COMMENTS: This isolated find was encountered during shovel testing in a forest of planted pines and mixed secondary-growth that is situated on a gentle side slope descending to the east towards an intermittent stream. A metavolcanic Stanly Stemmed point, a quartz decortication flake, and a quartz interior flake were recovered from Zone 1 of two positive shovel tests. Stanly Stemmed points date to the beginning of the Middle Archaic period, from 6000 to 5000 BC (Chapman 1977, McAvoy and McAvoy 1997, Ward and Davis 1999). Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material.

RECOMMENDATIONS: This set of artifacts reflect Middle Archaic settlement of the area but the find lacks sufficient context for further interpretation, and the location of these materials is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

STATE SITE NUMBER: 31WA1969

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Appling gravelly sandy loam, 2 to 6 percent slopes, moderately eroded

SITE SIZE: 10 x 10 m (32 x 32 ft)

SELECTED ARTIFACTS: quartz interior flakes

COMMENTS: This low density lithic scatter was encountered during shovel testing in a forest of planted pines and mixed secondary-growth that is situated on an upland area located just east of Sunset Lake Road on the western edge of Segment C (Figures 4.3-13 and 4.3-14). The artifact assemblage from the site (n=6) consists of quartz interior flakes that derived from Zone 1 of a single positive shovel test. The typical soil profile at the site contains two zones with Zone 1 a dark yellowish brown (10YR 4/4) sandy clay loam A-horizon approximately 15 to 20 cm in thickness, and Zone 2 a yellowish red (5YR 5/8) sandy clay subsoil. The function of the site is indeterminate based on the paucity of artifacts.

RECOMMENDATIONS: Given the low density of artifacts and the possibility of erosion, this site lacks the potential to provide additional information on the Native American settlement of the Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.



Figure 4.3-13: Map of Site 31WA1969. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-14: View of Site 31WA1969, Looking Southwest.

Table 4.3-8:Segment D Survey Summary.

Segment D (STIP R-2721)	
Length	1,222.75 m (4,011.64 ft)
Area	52.19 ha (128.97 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	24.61 ha (60.81 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	2.61 ha (6.46 acres)
Total Area Shovel Tested with Judgmental Test Placement	.15 ha (.37 acres)
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	24.82 ha (61.33 acres)
Total # of Shovel Tests	47
Total # Sites Documented	1
Total # Isolated Finds Documented	0

Segment D is approximately 1,222.75 m (4,011.64 ft) long and begins at Holly Springs Road and ends at Pierce Olive Drive (see Figure 4.3-1a). This segment of the APE also extends a total of about 1,237 m along Holly Springs Road, but a significantly shorter distance along Pierce Olive Drive. Roughly two-thirds of Segment C is covered by soils of the Appling series, with significantly smaller areas of Chewacla, Cecil, Wehadkee, Worsham, and other soils present. The most extensive single soil unit in the segment is Appling gravelly sandy loam, 6 to 10 percent slopes, moderately eroded. Appling and Cecil soils are classified as well-drained, while Chewacla soils are classified as somewhat poorly drained, and Wehadkee and Worsham soils are classified as poorly drained. At the time of the survey, the ground cover primarily consisted of woods, recently logged areas, and residential lots. Ground surface visibility was very low throughout the segment. Segment D was surveyed with shovel tests excavated at 30-m (98-ft) intervals and with visual inspection at 30-m (98-ft) intervals. Areas directly around houses were avoided because of the likelihood for buried utilities and disturbance. Survey resulted in the identification of one archaeological site in Segment D (see Figure 4.3-2a).

SITE NUMBER: 31WA1970

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Appling gravelly sandy loam, 6 to 10 percent slopes, moderately eroded *SITE SIZE:* 38 x 19 (124 x 61 ft)

SELECTED ARTIFACTS: quartz bifacial thinning flake, quartz interior flakes

COMMENTS: This low density lithic scatter was encountered during shovel testing in a mixed secondary forest situated on an upland flat located west of Pierce Olive Road on the eastern end of Segment C (Figures 4.3-15 and 4.3-16). The artifact assemblage from the site (n=7) was



Figure 4.3-15: Map of Site 31WA1970. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-16: View of Site 31WA1970, Looking Northwest.

recovered from Zone 1 of three positive shovel tests. These items include a bifacial thinning flake and six quartz interior flakes. Some of the shovel tests excavated exhibit signs of erosion, consequently resulting in a shallow A-horizon in areas of the site. The typical soil profile at the site contains three zones: Zone 1, a dark yellowish brown (10YR 3/4) sandy loam A-horizon 5 to 25 cm in thickness; Zone 2, a brownish yellow (10YR 6/6) sandy clay loam transition approximately 10 cm in thickness; and Zone 3, a brownish yellow (10YR 6/8) sandy clay subsoil. The function of the site is indeterminate based on the paucity of artifacts.

RECOMMENDATIONS: Given the low density of artifacts and the possibility of erosion, this site lacks the potential to provide additional information on the Native American settlement of the Piedmont region of North Carolina. This site is recommended not eligible for NRHP under Criteria A, B, C, or D.

Segment E (STIP R-2721)	
Length	2,239.09 m (7,346.10 ft)
Area	70.62 ha (174.52 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	36.96 ha (91.32 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	2.25 ha (5.55 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	12.85 ha (31.75 acres)
Total Area Shovel Tested with Judgmental Test Placement	.13 ha (.31 acres)
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	18.45 ha (45.59 acres)
Total # of Shovel Tests	75
Total # Sites Documented	1
Total # Isolated Finds Documented	1

Table 4.3-9:Segment E Survey Summary.

Segment E, which is approximately 2,239.09 m (7,346.10 ft) long, extends from Pierce Olive Drive in the west to West Lake Road in the east (see Figure 4.3-1a). This is one of the longest segments in the project. Over half of the APE in Segment E is covered by soils of the Cecil series, and the remainder is dominated by Appling soils. Other soils are present in smaller areas within the segment. The most extensive single soil unit in the segment is Cecil gravelly sandy loam, 2 to 6 percent slopes, moderately eroded, although Cecil gravelly sandy loam, 6 to 10 percent slopes, moderately eroded covers very nearly as large an area. Cecil and Appling soils are classified as well-drained. At the time of the survey, the ground cover primarily consisted of woods and recent residential development with no ground surface visibility. One relatively small pond is located within the segment, and the western drainage is especially deeply incised relative

to the surrounding landscape, with steep slopes on either side. Segment E was surveyed with shovel tests excavated at 30-m (98-ft) intervals and with visual inspection at 30-m (98-ft) intervals. Areas directly around houses were avoided because of the likelihood for buried utilities and disturbance. Survey resulted in the identification of one archaeological site and one isolated find in Segment E (see Figure 4.3-2a).

SITE NUMBER: 31WA1971

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Cecil gravelly sandy loam, 6 to 10 percent slopes, moderately eroded *SITE SIZE:* 40 x 6 m (134 x 18 ft)

SELECTED ARTIFACTS: metavolcanic bifacial thinning flake, quartz bifacial thinning flakes, quartz interior flakes

COMMENTS: This low density lithic scatter was encountered during shovel testing in a mixed secondary forest situated on the descending edge of an upland flat located east of Pierce Olive Road in the western half of Segment D (Figures 4.3-17 and 4.3-18). The site assemblage (n=5) was recovered from Zone 1 of two positive shovel tests. These items include a metavolcanic bifacial thinning flake, two quartz bifacial thinning flakes, and two quartz interior flakes. A few shovel tests excavated at the site exhibit signs of erosion, with the subsoil located less than 15 cm below the ground surface. Shovel testing revealed a two-zone soil profile at the site with Zone 1 a dark brown (7.5YR 4/4) silty loam A-horizon 12 to 27 cm in thickness, and Zone 2, a brownish yellow (10YR 6/8) clay loam subsoil. The function of the site is indeterminate based on the paucity of artifacts.

RECOMMENDATIONS: Given the low density of artifacts and the possibility of erosion, this site lacks the potential to provide additional information on the Native American settlement of the Piedmont region of North Carolina. This site is recommended not eligible for NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA1972

SITE TYPE: Native American isolated find

SOIL TYPE: Appling fine sandy loam, 2 to 6 percent slopes

SITE SIZE: 10 x 10 m (34 x 34 ft)

SELECTED ARTIFACTS: metavolcanic bifacial thinning flakes

COMMENTS: Two metavolcanic bifacial thinning flakes were encountered during shovel testing in a mixed secondary forest situated on an upland flat. These artifacts derived from Zone 1 of the same positive shovel test. Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material.

RECOMMENDATIONS: This pair of artifacts lack sufficient context for further interpretation and the location is unlikely to provide additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.



Figure 4.3-17: Map of Site 31WA1971. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-18: View of Site 31WA1971, Looking Southwest.

Table 4.3-10:Segment F Survey Summary.

Segment F (STIP R-2721)	
Length	1,015.19 m (3,330.66 ft)
Area	44.88 ha (110.91 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	17.24 ha (42.59 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	2.97 ha (7.33 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	6.72 ha (16.60 acres)
Total Area Shovel Tested with Judgmental Test Placement	.57 ha (1.42 acres)
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	17.39 ha (42.97 acres)
Total # of Shovel Tests	213
Total # Sites Documented	1
Total # Isolated Finds Documented	3

Segment F, which is approximately 1,015.19 m (3,330.66 ft) long, begins at West Lake Road and ends at Bells Lake Road (see Figure 4.3-1a). The APE in the segment extends approximately 1,807 along Bells Lake Road, continuing as far north as Ten Ten Road. Previously recorded site 31WA1855 overlaps Segment F within the northern extension along Bells Lake Road. This location is now partly a lawn and athletic field belonging to a church. Soils in Segment F consist of the Appling, Cecil, Colfax, and Worsham series. The Appling series dominates and the most extensive soil unit in the segment is Appling gravelly sandy loam, 2 to 6 percent slopes. Appling and Cecil soils are classified as well-drained, Colfax soils as somewhat poorly drained, and Worsham soils as poorly drained. At the time of the survey, the ground cover primarily consisted of woods, recent residential development, and a utility corridor. Bells Lake overlaps the segment by 0.18 ha (0.44 acres). Ground surface visibility was very low across the segment. Segment F was surveyed with shovel tests excavated at 30-m (98-ft) intervals and with visual inspection at 30-m (98-ft) intervals. Areas directly around houses were avoided because of the likelihood for buried utilities and disturbance. Survey resulted in the identification of one archaeological site and three isolated finds in Segment F (see Figure 4.3-2a). The three isolated finds are all located on the same upland flat and were just spaced far enough apart to be considered separate finds. The area where Segment F intersects site 31WA1855 was shovel tested at 30-m (98-ft), but no cultural material was identified.

SITE NUMBER: 31WA1973&1973**

SITE TYPE: Native American lithic scatter: unattributed; Historic isolated find: nineteenth to twentieth century

SOIL TYPE: Appling gravelly sandy loam, 2 to 6 percent slopes *SITE SIZE:* 150 x 55 m (495 x 180 ft)

SELECTED ARTIFACTS: quartz point tip, metavolcanic decortication flake, aphyric rhyolite bifacial thinning flake, metavolcanic bifacial thinning flakes, plagioclase porphyritic rhyolite bifacial thinning flake, plagioclase-quartz porphyritic rhyolite bifacial thinning flakes, quartz bifacial thinning flakes, aphyric rhyolite interior flakes, metavolcanic interior flakes, plagioclasequartz porphyritic rhyolite interior flake, quartz interior flakes, quartzite interior flakes, metavolcanic flake fragment, aphyric rhyolite fragment, aphyric rhyolite fire-cracked rock, quartzite split cobble, quartzite unmodified cobble, undecorated whiteware, brass bullet cartridge **COMMENTS:** This multicomponent site was initially located during shovel testing in a wooded area situated on a narrow ridge toe bound by unnamed drainages on the east, west, and south. Active modern dumping is obvious of the surface throughout this area (Figures 4.3-19 and 4.3-20). The site assemblage (n=164), which predominantly contains Native American artifacts, was recovered from the surface of the ground, shovel tests, and test units (Table 4.3-11). The surface assemblage includes a quartz point tip, a plagioclase-quartz porphyritic rhyolite bifacial thinning flake, two quartz interior flakes, and an unmodified quartzite cobble. Fifteen positive shovel tests were excavated at the site, with the highest prevalence of cultural material deriving from Zone 1 of these positive tests. Zone 2 of Shovel Tests 1, 20, and 37 contained a quartz interior flake, a quartz point fragment (the tip only), and two quartz interior flakes, respectively. Three of the four historic artifacts recovered from the site were located in Zone 1 of Shovel Test 3, which contained three whiteware fragments (the other historic artifact, a brass bullet casing, was recovered from Test Unit 2). Shovel testing at the site revealed a three-zone soil profile with Zone 1 a dark gravish brown (10YR 4/2) sandy loam A-horizon approximately 15 cm in thickness; Zone 2 a very pale brown (10YR 7/4) loamy sand E-horizon approximately 13 cm in thickness, and Zone 3 a pale yellow (2.5Y 7/4) fine sand. All three soil zones contained evidence of bioturbation from roots.

IN DEPTH EVALUATION: Two 1-x-1-m test units were excavated within the site area based on the nature of the precontact Native American lithic scatter. No features or intact buried deposits were found, and no precontact Native American diagnostic materials were recovered from the site. Test units were placed at the two highest concentrations of artifacts recovered during shovel tests (see Figure 4.3-19).

Test Unit 1 (placed within the area of Shovel Tests 7, 20, 23, and 24) yielded 80 Native American artifacts (Table 4.3-12). These artifacts include a metavolcanic decortication flake, 14 metavolcanic bifacial thinning flakes, three quartz bifacial thinning flakes, a plagioclase-quartz porphyritic rhyolite bifacial thinning flake, an aphyric rhyolite interior flake, 24 metavolcanic interior flakes, 33 quartz interior flakes, two quartzite interior flakes, and a metavolcanic flake fragment. The unit exhibited a pattern of decreasing artifact density with each level excavated. Zone 1 of the unit contained the highest concentration of materials. Excavation revealed a fourzone soil profile for the unit: Zone 1, a dark grayish brown (10YR 4/2) sandy loam A-horizon 17 cm in thickness; Zone 2, a very pale brown (10YR 7/4) sandy loam transition 10 cm in thickness; Zone 3, a pale yellow (2.5Y 7/4) fine sand E-horizon 16 cm in thickness; and Zone 4,



Figure 4.3-19: Map of Site 31WA1973. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-20: View of Site 31WA1973&1973**, Looking Southwest.

Object	Count
Quartz Point Tip	1
Metavolcanic Decortication Flake	1
Aphyric Rhyolite Bifacial Thinning Flake	1
Metavolcanic Bifacial Thinning Flake	20
Plagioclase Porphyritic Rhyolite Bifacial Thinning Flake	1
Plagioclase-Quartz Porphyritic Rhyolite Bifacial Thinning Flake	2
Quartz Bifacial Thinning Flake	12
Aphyric Rhyolite Interior Flake	6
Metavolcanic Interior Flake	34
Plagioclase-Quartz Porphyritic Rhyolite Interior Flake	1
Quartz Interior Flake	71
Quartzite Interior Flake	3
Metavolcanic Flake Fragment	1
Chert Indeterminate Spall	2
Quartzite Indeterminate Fragment	1
Quartzite Split Cobble	1
Quartzite Unmodified Cobble	2
Whiteware	3
Brass Bullet Cartridge	1
Total	164

Table 4.3-11: Summary of Artifacts Recovered from 31WA1973&1973**.

Table 4.3-12: Summary of Artifacts Recovered from 31WA1973&1973**, Test Unit 1 by Zone and Level.

Object	Zone/Level	Count	Percentage
			in Test Unit
Metavolcanic Bifacial Thinning Flake	1/1	2	2.50%
Plagioclase-Quartz Porphyritic Rhyolite Bifacial Thinning Flake	1/1	1	1.25%
Aphyric Rhyolite Interior Flake	1/1	1	1.25%
Metavolcanic Interior Flake	1/1	4	5.00%
Quartz Interior Flake	1/1	18	22.50%
Metavolcanic Bifacial Thinning Flake	1/2	3	3.75%
Quartz Bifacial Thinning Flake	1/2	1	1.25%
Metavolcanic Interior Flake	1/2	3	3.75%
Quartz Interior Flake	1/2	4	5.00%
Metavolcanic Flake Fragment	1/2	1	1.25%
Metavolcanic Bifacial Thinning Flake	2/1	6	7.50%
Quartz Bifacial Thinning Flake	2/1	2	2.50%
Metavolcanic Interior Flake	2/1	9	11.25%
Quartz Interior Flake	2/1	8	10.00%
Quartzite Interior Flake	2/1	2	2.50%
Metavolcanic Decortication Flake	3/1	1	1.25%
Metavolcanic Bifacial Thinning Flake	3/1	2	2.50%
Metavolcanic Interior Flake	3/1	6	7.50%
Quartz Interior Flake	3/1	2	2.50%
Metavolcanic Bifacial Thinning Flake	Wall Fall	1	1.25%
Metavolcanic Interior Flake	Wall Fall	2	2.50%
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Quartz Interior Flake	Wall Fall	1	1.25%
Total		80	100.00%

a reddish yellow (7.5YR 6/8) sandy clay subsoil. No features were located in Test Unit 1 and the only sign of disturbance was bioturbation (Figures 4.3-21 and 4.3-22).

Test Unit 2 (placed between Shovel Tests 5 and 7) yielded 45 artifacts, all which are Native American lithic items with the exception of a historic brass bullet casing which was located in Zone 1 of the unit (Table 4.3-13). The Native American artifacts include two metavolcanic bifacial thinning flakes, an aphyric rhyolite bifacial thinning flake, three quartz bifacial thinning flakes, seven metavolcanic interior flakes, three aphyric rhyolite interior flakes, a plagioclasequartz porphyritic rhyolite interior flake, 23 quartz interior flakes, two chert indeterminate spalls, an indeterminate quartzite fragment, and unmodified quartzite cobble.

Table 4.3-13: Summary of Artifacts Recovered from 31WA1973&1973**, Test Unit 2 by Zone and Level.

Object	Zone/Level	Count	Percentage in Test Unit
Metavolcanic Bifacial Thinning Flake	1/1	1	2.22%
Quartz Bifacial Thinning Flake	1/1	1	2.22%
Metavolcanic Interior Flake	1/1	3	6.67%
Quartz Interior Flake	1/1	6	13.33%
Metavolcanic Interior Flake	1/2	3	6.67%
Quartz Interior Flake	1/2	8	17.78%
Brass Bullet Cartridge	1/2	1	2.22%
Plagioclase-Quartz Porphyritic Rhyolite Interior Flake	2/1	1	2.22%
Quartz Interior Flake	2/1	2	4.44%
Aphyric Rhyolite Bifacial Thinning Flake	2/2 (East Half)	1	2.22%
Quartz Bifacial Thinning Flake	2/2 (East Half)	2	4.44%
Quartz Interior Flake	2/2 (East Half)	5	11.11%
Aphyric Rhyolite Interior Flake	2/3	2	4.44%
Metavolcanic Interior Flake	2/Feature 1	1	2.22%
Quartz Interior Flake	2/Feature 1	1	2.22%
Chert Indeterminate Spall	2/Feature 1	2	4.44%
Quartzite Indeterminate Fragment	2/Feature 1	1	2.22%
Quartzite Unmodified Cobble	2/Feature 1	1	2.22%
Charcoal	2/Feature 1	_	-
Quartz Interior Flake	North Wall	1	2.22%
Aphyric Rhyolite Interior Flake	West Wall	1	2.22%
Metavolcanic Bifacial Thinning Flake	South Wall	1	2.22%
Total		45	100.00%

A tree stump in the latter stages of decomposition was located in the southeast portion of the unit and descended to the bottom of the unit in the southeast (Figures 4.3-23 and 4.3-24). This tree stump was excavated separately and yielded a small amount of charcoal.



Figure 4.3-21: Site 31WA1973&1973**, Test Unit 1, Sketch of South Profile.



Figure 4.3-22: Site 31WA1973&1973**, Test Unit 1, Photograph of South Profile.



Figure 4.3-23: Site 31WA1973&1973**, Test Unit 2, Sketch of South Profile.



Figure 4.3-24: 31WA1973&1973**, Test Unit 2, Photograph of South Profile.

The profile presented in Figures 4.3-23 and 4.3-24 also illustrates disturbed strata found within the eastern half of the unit, which are attributed to logging activity. Bioturbation appears to be pervasive through all zones in the unit. Artifact densities decreased with each level excavated, with Zone 1 having the highest concentration. Test Unit 2 contained a three-zone soil profile: Zone 1, a brown (10YR 4/3) sandy loam A-horizon 15 cm in thickness; Zone 2, a brownish yellow (10YR 6/6) sandy clay loam transition 6 cm in thickness; and Zone 3, a reddish yellow (5YR 6/8) clay subsoil.

Test Units 1 and 2 appeared different, but the types of lithic debitage recovered from each of these units is similar. The artifacts recovered from positive shovel tests at the site are also similar to the materials recovered from the test units. This similarity and consistency across the site area suggests that these cultural materials resulted from the same depositional event. **RECOMMENDATIONS:** Despite the high concentration of artifacts potentially representing a specific behavior (lithic reduction), the lack of diagnostic artifacts and obvious evidence of disturbance from logging activities lessens the potential of this site to yield further knowledge into activities represented by the artifact assemblage or the period of occupation. In the analysis of survey in upland settings, Chiarulli et al. (2001) indicate that most common research questions must rely on information from datable contexts or where lithic materials possess solid temporal correlations. The authors do not dismiss the need for upland surveys, but define sites with research potential as having components with sufficient patterning to provide datable contexts in relation to site function and occupation span (Chiarulli et al. 2001:4-8, 5-5). Since 31WA1973&1973** lacks the evidence for patterning and datable contexts, it cannot be fruitfully compared to other sites. Thus, the site is unlikely to provide additional information on Native American or historic lifeways of the Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA1974

SITE TYPE: Native American isolated find

SOIL TYPE: Cecil sandy loam, 2 to 6 percent slopes, moderately eroded

SITE SIZE: 42 x 6 m (138 x 18 ft)

SELECTED ARTIFACTS: metavolcanic bifacial thinning flake, quartzite tested cobble **COMMENTS:** The isolated find was recorded while shovel testing in a planted pine forest (near several mature oak trees) situated on an upland flat. The artifacts recovered, a metavolcanic bifacial thinning flake and a quartzite tested cobble, each derived from Zone 1 of a respective positive shovel test. Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material.

RECOMMENDATIONS: These artifacts lack sufficient context for further interpretation and the location is unlikely to provide additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA1975
SITE TYPE: Native American isolated find
SOIL TYPE: Cecil sandy loam, 2 to 6 percent slopes, moderately eroded
SITE SIZE: 10 x 10 m (34 x 34 ft)
SELECTED ARTIFACTS: aphyric rhyolite bifacial thinning flake

COMMENTS: A single aphyric rhyolite bifacial thinning flake was encountered while shovel testing in a planted pine forest (near several mature oak trees) situated on an upland flat. The artifact was recovered from Zone 1 of a positive shovel test. Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material.

RECOMMENDATIONS: This isolate lacks sufficient context for further interpretation and is unlikely to provide additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA1976&1976**

SITE TYPE: Native American isolated find: unattributed; Historic: 19th to 20th century *SOIL TYPE:* Cecil sandy loam, 2 to 6 percent slopes, moderately eroded *SITE SIZE:* 42 x 6 m (138 x 18 ft)

SELECTED ARTIFACTS: metavolcanic interior flake, hand-painted whiteware **COMMENTS:** The isolate find was recorded while shovel testing in a planted pine forest (near several mature oak trees) situated on an upland flat. The artifacts recovered, a metavolcanic bifacial thinning flake and a fragment of hand-painted whiteware, derived from Zone 1 of two respective positive shovel tests. Hand-painted whiteware generally dates from 1830 to 1860 (Mansberger 1986). Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material.

RECOMMENDATIONS: These artifacts lack sufficient context for further interpretation and are unlikely to provide additional significant information on Native American settlement or historic occupation of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

Segment G (STIP R-2721)	
Length	603.37 m (1,979.56 ft)
Area	28.83 ha (71.25 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	7.02 ha (17.34 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	.53 ha (1.32 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	4.95 ha (12.24 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	16.33ha (40.35 acres)
Total # of Shovel Tests	78
Total # Sites Documented	2
Total # Isolated Finds Documented	

Table 4.3-14: Segment G Survey Summary.

Segment G is approximately 603.37 m (1,979.56 ft) long and extends from Bells Lake Road in the west to Rhodes Road in the east (see Figure 4.3-1a). The APE in the segment extends approximately 1,807 m (5,928 ft) along Bells Lake Road, continuing as far north as Ten-Ten Road, but extends a considerably shorter distance up and down Rhodes Road. A previously recorded site, 31WA1899, is located at the western end of the segment, close to Bells Lake Road. Soils in Segment G consist almost entirely of Appling gravelly sandy loam, with lesser areas of Colfax sandy loam and Worsham sandy loam present. The most extensive soil unit in the segment is Appling gravelly sandy loam, 6 to 10 percent slopes, although Appling gravelly sandy loam, 2 to 6 percent slopes covers very nearly as large an area. Appling soils are classified as well-drained, Colfax soils as somewhat poorly drained, and Worsham soils as poorly drained. At the time of the survey, the ground cover primarily consisted of woods in the interior of the segment, with residential lots along Bells Lake Road and a trailer park along Rhodes Road. Ground surface visibility was low across the segment. Areas in Segment G that were coded as eroded, poorly drained, or wet were subject to visual inspection at 30-m (98-ft) intervals. The remainder of the segment was shovel tested at 30-m (98-ft) intervals, where not visibly disturbed. Survey resulted in the identification of two archaeological sites in Segment G (see Figure 4.3-2a).

SITE NUMBER: 31WA1977**

SITE TYPE: Historic domestic scatter: nineteenth to twentieth century

SOIL TYPE: Appling gravelly sandy loam, 2 to 6 percent slopes

SITE SIZE: 39 x 21 m (128 x 66 ft)

SELECTED ARTIFACTS: undecorated whiteware, buff-bodied North American stoneware aqua container glass, ferrous nail fragment

COMMENTS: This historic domestic scatter was encountered during shovel testing in planted pine forest situated on an upland flat located just east of Bells Lake Road on the western end of Segment G (Figures 4.3-25 and 4.3-26). The site assemblage (n=5) was derived from Zone 1 of four positive shovel tests. These artifacts include two undecorated whiteware fragments, a buffbodied North American stoneware fragment, a piece of aqua container glass, and a ferrous nail fragment. The typical soil profile at the site consists of two zones with Zone 1 a yellowish brown (10YR 5/4) silty loam A-horizon approximately 25 cm in thickness, and Zone 2 a pale brown (10YR 6/3) silty loam subsoil with a soil matrix containing more than 50 percent gravel. The undecorated whiteware sherd is the only dateable ceramic with a general range of 1830 to present (Miller et al. 2000).

RECOMMENDATIONS: Although the site contains materials associated with late nineteenthto twentieth-century domestic activity, it also revealed subsurface disturbances that likely resulted from logging in the area. This factor, as well as the low density of artifacts found, makes it unlikely that there is potential for the site to provide additional information on the historic occupation of the Piedmont region of North Carolina. This site does not appear to be eligible for the NRHP under Criteria A, B, C, or D.



Figure 4.3-25: Map of Site 31WA1977. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-26: View of Site 31WA1977**, Looking East.

SITE NUMBER: 31WA1978&1978**

SITE TYPE: Native American lithic scatter: unattributed; Historic domestic scatter: early nineteenth to twentieth century

SOIL TYPE: Appling gravelly sandy loam, 2 to 6 percent slopes, moderately eroded *SITE SIZE:* 50 x 38 m (175 x 125 ft)

SELECTED ARTIFACTS: quartz bifacial thinning flake, quartz interior flakes, undecorated whiteware, porcelain, colorless window glass, aqua window glass, aqua container glass, light aqua container glass, solarized/ manganese dioxide decolorized container glass, colorless container glass, opaque white "milk glass" container glass, indeterminate iron nail, brick fragments

COMMENTS: This multicomponent site was encountered while shovel testing in a patch of planted pines situated on an upland flat just east of Bells Lake Road, approximately 220 m south of site 31WA1977** (Figures 4.3-27 and 4.3-28). This site represents a small Native American lithic scatter located within a larger nineteenth- to twentieth-century historic residential scatter. The assemblage from the site (n=41) derived from Zone 1 of five positive shovel tests (Table 4.3-15). The typical soil profile at the site consists of three zones: Zone 1, a dark brown (10YR 3/3) silty loam A-horizon approximately 20 cm in thickness; Zone 2, a light brownish gray (10YR 6/2) silty loam transition layer approximately 15 cm in thickness; and Zone 3, a brownish yellow (10YR 6/8) silty clay subsoil. The soil within Zone 2 of Shovel Tests 9, 12, and 15 was mottled and revealed subsurface disturbances that likely resulted from new home construction nearby. Radial shovel tests could not be excavated to the west and south due to Bells Lake Road and a pipeline corridor, respectively.

Object	Count
Quartz Bifacial Thinning Flake	1
Quartz Interior Flake	4
Whiteware	3
White Porcelain	2
Aqua Container Glass	7
Amethyst Container Glass	2
Colorless Container Glass	6
Opaque White Container Glass	1
Aqua Window Glass	3
Colorless Window Glass	1
Iron Nail	2
White Plastic	1
Brick	8
Total	41

Table 4.3-15: Summary of Artifacts Recovered from 31WA1978&1978**.

The historic component of the site includes undecorated whiteware, white porcelain, opaque white "milk glass", solarized/ manganese dioxide decolorized container glass, aqua container glass, colorless container glass, colorless window glass, an iron nail, and brick. Undecorated whiteware dates from as early as 1830 through the twentieth century (Miller et al. 2000). Opaque white "milk glass" dates primarily to the 1870s to mid-twentieth century (Lindsey 2017).



Figure 4.3-27: Map of Site 31WA1978&1978**. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-28: View of Site 31WA1978&1978**, Looking East.

solarized/ manganese dioxide decolorized container glass dates from the 1820s to 1930s (Lindsey 2017). This historic component may represent the remains of a structure that is present on the 1964 USGS 7.5-minute topographic map for the area, just north of the site location. This same structure is not present on the 1984 revision of the map. This would corroborate the presence of window glass, brick, and nails in the artifact assemblage.

The Native American component of the site is represented by only five lithic artifacts. These items include a quartz bifacial thinning flake and four quartz interior flakes. A previously recorded Native American lithic scatter (31WA1899) is located immediately north of the site. Shovel testing in the area of this previously recorded site did not yield cultural materials. Sadly, much of 31WA1899 now appears to have been destroyed by modern housing development. *RECOMMENDATIONS:* The lack of evidence for intact subsurface deposits and evidence of modern disturbances limits potential of the site to contribute to the understanding of historic or Native American lifeways within the Piedmont region of North Carolina. While the site may extend outside of the APE, the portion within is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

Segment H (STIP R-2721)	
Length	469.51 m (1,540.40 ft)
Area	15.68 ha (38.75 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	7.18 ha (17.75 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	.19 ha (.47 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	3.86 ha (9.53 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	4.45 ha (11.00 acres)
Total # of Shovel Tests	59
Total # Sites Documented	
Total # Isolated Finds Documented	1

Table 4.3-16: Segment H Survey Summary.

Segment H is a short segment approximately 469.51 m (1,540.40 ft) long. It spans the distance between Rhodes Road and Deer Meadow Drive (see Figure 4.3-1b). Segment H is the smallest segment in the project, encompassing only 15.68 ha (38.75 acres). Like Segment G, soils in Segment H consist almost entirely of Appling gravelly sandy loam. Worsham sandy loam and a smaller area of Appling sandy loam are also present. The two most extensive soil units in the segment are Appling gravelly sandy loam, 2 to 6 percent slopes, moderately eroded, and Appling

gravelly sandy loam, 6 to 10 percent slopes. Appling soils are classified as well-drained and Worsham soils are classified as poorly drained. At the time of the survey, the ground cover consisted of woods and creek bottom wetlands in the interior of the segment, a trailer park along Rhodes Road, and residential lots along Deer Meadow Drive. Ground surface visibility was low across the segment. This segment was surveyed with shovel tests excavated at 30-m (98-ft) intervals and with visual inspection at 30-m (98-ft) intervals. Areas directly around houses and commercial buildings were avoided because of the likelihood for buried utilities and disturbance. Survey resulted in the identification of one isolated find in Segment H (see Figure 4.3-2b).

SITE NUMBER: 31WA1979

SITE TYPE: Native American isolated find: Middle to Late Woodland

SOIL TYPE: Appling gravelly sandy loam, 6 to 10 percent slopes, moderately eroded *SITE SIZE:* 10 x 10 m (34 x 34 ft)

SELECTED ARTIFACTS: plagioclase-quartz porphyritic rhyolite Roanoke/Yadkin point **COMMENTS:** A single plagioclase-quartz porphyritic rhyolite Roanoke/Yadkin point was recovered during shovel testing in a mixed secondary-growth forest situated on a stream terrace (Figure 4.3-29). The artifact was recovered from Zone 1 of a positive shovel test.

Roanoke/Yadkin points dates to the Middle to Late Woodland period (2,300 to 1,500 BC) (Coe 1964). Radial shovel tests were excavated in four directions at 15-m intervals, but no additional material were recovered.

RECOMMENDATIONS: The artifact lacks sufficient context for further interpretation and is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

Segment I (STIP R-2721)	
Length	880.58 m (2,889.03 ft)
Area	29.65 ha (73.26 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	14.29 ha (35.31 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	
Total Area with Pedestrian Transects (10-m/39-ft Interval)	5.68 ha (14.04 acres)
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	1.64 ha (4.06 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	1.50 ha (3.70 acres)
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	6.54 ha (16.15 acres)
Total # of Shovel Tests	32
Total # Sites Documented	
Total # Isolated Finds Documented	1

Table 4.3-17: Segment I Survey Summary.



Figure 4.3-29: Large Triangular Point from 31WA1979 (Acc.# 2017.0049.01).

Segment I, which is approximately 880.58 m (2,889.03 ft) long, begins at Deer Meadow Drive and ends at Johnson Pond Road (see Figure 4.3-1b). Soils in this segment are mostly of the Appling series, with Norfolk, Worsham, and a tiny area of Colfax soils present. The most extensive soil unit in the segment is Appling gravelly sandy loam, 2 to 6 percent slopes, moderately eroded. Appling and Norfolk soils are classified as well-drained, Colfax soils are classified as somewhat poorly drained, and Worsham soils are classified as poorly drained. There are two artificial ponds, one 1.65 ha (4.09 acres) in size and the other encompassing 0.65 ha (1.561 acres). At the time of the survey, the ground cover in Segment I consisted of agricultural fields, recent residential development, woods, and the ponds. Residential lots were located at the western end of the segment near Deer Meadow Drive and along the northern edge of the segment. Ground surface visibility was variable but relatively high in the agricultural fields, but zero percent elsewhere. Segment I was surveyed with surface survey at 10-m (33-ft) intervals in the cultivated fields, shovel tests excavated at 30-m (98-ft) intervals in a small area of woods south of the larger pond, and with visual inspection at 30-m (98-ft) intervals of areas coded as moderately eroded or poorly drained. Areas directly around houses were avoided because of the likelihood for buried utilities and disturbance. Survey resulted in the identification of one isolated find in Segment I (see Figure 4.3-2b). This consisted of a single quartz flake on the surface near the southern edge of the segment.

SITE NUMBER: 31WA1980

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Appling sandy loam, 2 to 6 percent slopes, moderately eroded

SITE SIZE: 11 x 11 m (36 x 36 ft)

SELECTED ARTIFACTS: quartz interior flake

COMMENTS: A quartz interior flake was recovered during the visual assessment of a soybean field with favorable surface visibility, which is situated on a low rise of an upland area along the southern edge of Segment I. A judgmental shovel test was placed nearby the find to identify soil stratigraphy but no additional artifacts were recovered.

RECOMMENDATIONS: This artifact lacks sufficient context for further interpretation and is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D. Table 4.3-18:Segment J Survey Summary.

Segment J (STIP R-2721)	
Length	1,010.52 m (3,315.36 ft)
Area	36.12 ha (89.24 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	12.03 ha (29.73 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	.65 ha (1.60 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	5.77 ha (14.25 acres)
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	6.85 ha (16.93 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	3.35 ha (8.29 acres)
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	7.46 ha (18.44 acres)
Total # of Shovel Tests	127
Total # Sites Documented	1
Total # Isolated Finds Documented	1

Segment J is approximately 1,010.52 m (3,315.36 ft) long and extends from Johnson Pond Road in the west to Lake Wheeler Road in the east (see Figure 4.3-1b). The APE in the segment extends a total of approximately 1,065 m (3,494 ft) along Lake Wheeler Road. Soils in Segment J consist primarily of Norfolk Loamy Sand, Appling gravelly sandy loam, Appling sandy loam, and Wagram loamy sand, with lesser amounts of other soil types present. The most extensive soil unit in the segment is Norfolk loamy sand, 2 to 6 percent slopes, moderately eroded. Norfolk and Appling soils are classified as well-drained and Wagram soils are classified as somewhat excessively drained. There are three ponds within or overlapping Segment J, encompassing a total of 1.33 ha (3.29 acres). At the time of the survey, the ground cover primarily consisted of cultivated fields and woods. Fields were located adjacent to Johnson Pond Road and Lake Wheeler Road and the woods were located in the middle of the segment. Ground surface visibility was variable but typically high in the cultivated fields, except for one near Lake Wheeler Road, which had to be shovel tested due to low visibility. Ground surface visibility was very low in the woods. This segment was surveyed with shovel tests excavated at 30-m (98-ft) intervals, surface survey at 10-m (33-ft) intervals, and with visual inspection at 30-m (98-ft) intervals. Areas directly around houses and commercial buildings were avoided because of the likelihood for buried utilities and disturbance. Survey resulted in the identification of two archaeological sites in Segment J (see Figure 4.3-2b). One site, 31WA1981, consists of both surface finds in a cultivated field and positive shovel tests in the adjacent woods and extends past the southern boundary of the segment. A single test unit was excavated at this site following survey.

SITE NUMBER: 31WA1981

SITE TYPE: Native American scatter: Woodland

SOIL TYPE: Appling gravelly sandy loam, 6 to 10 percent slopes, moderately eroded *SITE SIZE:* 63 x 62 m (208 x 206 ft)

SELECTED ARTIFACTS: indeterminate Native American ceramics, quartz retouched flake, quartzite decortication flake, aphyric rhyolite bifacial thinning flake, quartz bifacial thinning flake, aphyric rhyolite interior flakes, metavolcanic interior flake, plagioclase-quartz porphyritic rhyolite interior flake, quartz interior flakes, quartzite interior, quartz flake fragments, aphyric rhyolite flake fragment, quartz shatter

COMMENTS: The site was initially encountered during the visual reconnaissance of an agricultural field with good surface visibility (Figures 4.3-30, 4.3-31, and 4.3-32). The site straddles this field and a wooded area, and is situated between a wet area and a rise. Although much of the site was mapped as having eroded soils, it was shovel tested. The site assemblage (n=65) was recovered from the ground surface, positive shovel tests, a test unit, and also from an upturned tree root ball (two quartz interior flakes). The artifacts collected from the surface include a retouched quartz flake, an aphyric rhyolite bifacial thinning flake, a metavolcanic interior flake, a plagioclase-quartz porphyritic rhyolite interior flake, 33 quartz interior flakes, and a piece of quartz shatter. Zone 1 of Shovel Tests 3 and 5 each contained a quartz interior flake. Zone 1 of Shovel Test 1 contained five interior quartz flakes and a flake fragment, while Zone 3 of the same positive test contained 11 interior quartz flakes. The artifacts recovered from Zone 2 of positive shovel tests includes an indeterminate ceramic sherd, a quartzite decortication flake, two aphyric rhyolite interior flakes, quartz interior flakes, and an aphyric flake fragment.

The typical soil profile at the site contained three zones: Zone 1, a very dark grayish brown (10YR 3/2) sandy loam A-horizon approximately 14 cm in thickness; Zone 2, a yellowish brown (10YR 5/4) sandy E-horizon approximately 20 cm in thickness; Zone 3, a light yellowish brown (10YR 6/4) wet sandy subsoil. With exception, each of the three soil zones at the site exhibited evidence of bioturbation from roots and gravel, which increased with depth. The exception, Shovel Test 1, was excavated within the plowed field and contained a clearly defined plow zone and also a buried A-horizon beneath two disturbed layers. This portion of the field likely contained fill placed there by the landowners to help control flooding in the field.

IN DEPTH EVALUATION: A 1-x-1-m test unit (referred to as Test Unit 1) was excavated at the site. The decision to excavate the unit was prompted by the presence of a Native American ceramic sherd recorded while shovel testing (recovered from Zone 2 of Shovel Test 5), as well as the moderate density of lithic items that were surface collected in the field portion of the site. The unit was placed between Shovel Tests 3 and 5 with the intent to test for the presence of additional ceramics in this location. The stratigraphy of the unit was consistent with the three-zone soil profile revealed through shovel testing at the site. No features or intact buried deposits were found in Test Unit 1, but the unit exhibited disturbance resulting from bioturbation (Figures 4.3-33 and 4.3-34). The artifacts recovered from the unit include a Native American indeterminate ceramic sherd a quartz bifacial thinning flake located in Zone 1, and a quartz interior flake recovered from Zone 2 of the unit.



Figure 4.3-30: Map of Site 31WA1981. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-31: View of Site 31WA1981, Looking Northwest.



Figure 4.3-32: View of Site 31WA1981, Looking Southeast.



Figure 4.3-33: Site 31WA1981 Test Unit 1, Sketch of East Profile.



Figure 4.3-34: 31WA1981, Test Unit 1, Photograph of East Profile.

Temporally diagnostic materials were not recovered from the site; however, the Native American ceramic sherds recovered likely date to the Woodland period. In general, Native American ceramics date to the Woodland period but the two sherds recovered from this site are too small in size (under 2 cm maximum dimension) to conclusively attribute. More than half of the assemblage was surface collected from the agricultural field portion of the site. The plow zone of Shovel Test 1 (the only shovel test excavated in the field near the surface scatter), contained more than half of the artifacts recovered from the positive shovel tests recorded at the site. This distribution of items suggests that the main portion of the site was higher up on the slope in the agricultural field and the items found in the woods could have been washed down slope in colluvium. The positive shovel tests excavated at the site contained material from beneath the Ahorizon, but the lackluster density of items from the unit suggest that this site has been greatly impacted by years of agricultural production.

Object	Count
Indeterminate NA Ceramic	2
Quartz Retouched Flake	1
Quartzite Decortication Flake	1
Aphyric Rhyolite Bifacial Thinning Flake	1
Quartz Bifacial Thinning Flake	1
Aphyric Rhyolite Interior Flake	2
Metavolcanic Interior Flake	1
Plagioclase-Quartz Porphyritic Rhyolite Interior Flake	1
Quartz Interior Flake	51
Quartzite Interior Flake	1
Aphyric Rhyolite Flake Fragment	1
Quartz Flake Fragment	1
Quartz Shatter	1
Total	65

Table 4.3-19:	Summary	of Artifacts	Recovered	from	31WA1981.
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RECOMMENDATIONS: 31WA1981 may have once been a larger more intact site, but years of agricultural activity has destroyed any intact context on the upland slope area, and the low density of artifacts found down slope in the woods is probably redeposited through colluvium. Cultural material found beneath the A-horizon/plow zone is probably the result of bioturbation. Given the low artifact density and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on precontact inhabitants of the Piedmont region of North Carolina. The site is recommended not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA1982
SITE TYPE: Native American isolated find: unattributed
SOIL TYPE: Appling sandy loam, 2 to 6 percent slopes
SITE SIZE: 11 x 11 m (36 x 36 ft)
SELECTED ARTIFACTS: quartz porphyritic rhyolite interior flake, aphyric rhyolite interior flake

COMMENTS: The site was recovered during shovel testing in a wooded area on a stream terrace at the center of Segment J. Two lithic artifacts were recovered from Zone 2 of a positive shovel test, a quartz porphyritic rhyolite interior flake and an aphyric rhyolite interior flake. Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material. **RECOMMENDATIONS:** This pair of artifacts lack sufficient context for further interpretation and are unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

Segment K (STIP R-2721)	
Length	1,297.66 m (4,257.41 ft)
Area	74.57 ha (184.27 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	37.40 ha (93.89 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	.55 ha (1.37 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	8.16 ha (20.17 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	.36 ha (.90 acres)
Total Area Disturbed / Sloped / Low and Wet	27.50 ha (67.95 acres)
Total # of Shovel Tests	199
Total # Sites Documented	3
Total # Isolated Finds Documented	
Total # Cemeteries Recorded	1

Table 4.3-20: Segment K Survey Summary.

Segment K, which is approximately 1,297.66 m (4,257.41 ft) long, begins at Lake Wheeler Road and ends at US 401/Fayetteville Road (see Figure 4.3-1b). The segment overlaps both sides of Donny Brook Road and extends a total of 2,363 m (7,752 ft) along US 401/Fayetteville Road, but does not continue as far north as Ten Ten Road. Common soils in Segment K are of the Cecil, Appling, and Wagram series, with Wehadkee, Norfolk, and other soils present. The most extensive soil units in the segment are Appling sandy loam, 6 to 10 percent slopes, moderately eroded; Wehadkee and Bibb soils, 0 to 2 percent slopes, frequently flooded; and Wagram loamy sand, 0 to 6 percent slopes. There is a large, artificial pond in the segment encompassing 1.39 ha (3.44 acres). At the time of the survey, the ground cover in Segment K consisted of recently logged and re-planted forest areas (with heavy brush), woods, a disturbed utility corridor, roadways, and residential and commercial development. Developed areas were mostly located along US 401/Fayetteville Road, but residential lots were also located off of Donny Brook Road. Ground surface visibility was low across the segment. Segment K was surveyed with shovel

tests excavated at 30-m (98-ft) intervals and with visual inspection at 30-m (98-ft) intervals in areas coded as moderately eroded or poorly drained. Areas directly around houses and commercial buildings were avoided because of the likelihood for buried utilities and disturbance. Survey resulted in the identification of three archaeological sites and a cemetery in Segment K (see Figure 4.3-2b). Test units were excavated at 31WA1983&1983**, located in the woods adjacent to Lake Wheeler Road, and at 31WA1985&1985**, at the western end of the segment. The cemetery (31WA1984**) is located on the south side of Donny Brook Road, about 150 m (492 ft) west of US 401/Fayetteville Road. It consists of at least 18 graves marked by at least 16 headstones, footstones, and other monuments. Most of the individuals share the last name McCullers. Dates of death recorded on the headstones and monuments range from 1825 to 1964, with about half occurring in the 1920s-1930s. Individuals buried here include a Revolutionary War veteran (Captain Mathew McCullers) and a World War I veteran (Robert Louis Heflin, Jr.). Unmarked graves are likely present, and the cemetery may extend beyond the mapped grave markers. 31WA1986** is the historic ruin of the McCullers's house. Only one small area within Segment K could not be accessed during the survey. This area involved a small, fallow field located behind a high barbed-wired for which the owner could not be reached. The field (.9 acres) is located just north of Gelder Drive in an area of tie-in for Fayetteville Road (US 401) (see Figure 4.3-1b).

SITE NUMBER: 31WA1983&1983**

SITE TYPE: Native American scatter: Late Archaic to Woodland; Historic scatter: nineteenth to twentieth century

SOIL TYPE: Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 197 x 86 m (645 x 282 ft)

SELECTED ARTIFACTS: indeterminate Native American Ceramic, quartz Savannah River Stemmed point base, indeterminate late stage biface, quartz possibly utilized flake, metavolcanics decortication flake, aphyric rhyolite bifacial thinning flakes, metavolcanics bifacial thinning flakes, quartz bifacial thinning flakes, quartz porphyritic rhyolite bifacial thinning flakes, aphyric rhyolite interior flakes, metavolcanics interior flakes, plagioclase porphyritic rhyolite interior flakes, plagioclase-quartz porphyritic rhyolite interior flake, quartz interior flakes, quartz porphyritic rhyolite interior flakes, quartz interior flakes, quartz porphyritic rhyolite flake fragments, quartz shatter, undecorated whiteware, colorless container glass, solarized/manganese dioxide decolorized container glass, aqua window glass, indeterminate metal fragment

COMMENTS: This large multicomponent scatter was encountered while shovel testing in a planted pine forest situated on a narrow upland flat just east of Lake Wheeler Road (Figures 4.3-35 and 4.3-36). The northern boundary of the site is flanked by a house and a fairly large goat pen. The site assemblage (n=139) contains artifacts derived from positive shovel tests (58 artifacts), materials recovered from test units (80 artifacts), as well as one item (a late stage biface) encountered on the ground surface. With regard to the materials recorded during shovel testing, nearly all of the materials recovered are Native American lithic items, with the exception of an undecorated whiteware fragment located in Zone 3 of Shovel Test 46, as well as another undecorated whiteware fragment and a piece of colorless container glass which derived from Zone 1 of Shovel Tests 25 and 37, respectively. Whiteware generally dates from the 1830 to the present (Miller et al. 2000).



Figure 4.3-35: Map of Site 31WA1983. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-36: View of Site 31WA1983&1983**, Looking Northwest.

Initially, 16 positive shovel tests were excavated at the site, and the expansion of testing was prompted based on the high probability of the landform, the proximity to a drainage, and the extensive area of the site. Expanded shovel testing yielded seven additional positive tests. At the time, this intensive shovel testing helped to define different concentrations of artifacts located within the site boundary, but the overall site size remained the same. In total, 23 positive shovel tests were excavated, with most cultural materials deriving from Zone 1 of the positive tests.

The Native American materials recovered during shovel testing were located in Zones 1 and 2 of positive shovel tests. The artifacts recovered from Zone 1 of positive shovel tests include a quartz utilized flake, an aphyric rhyolite bifacial thinning flake, 10 metavolcanic bifacial thinning flakes, a quartz bifacial thinning flake, a metavolcanic decortication flake, an aphyric rhyolite interior flake, a plagioclase quartz porphyritic rhyolite interior flake, a quartz porphyritic rhyolite interior flake, 18 metavolcanic interior flakes, 14 quartz interior flakes, a quartz te interior flake, quartz shatter, and a possible concretion. The items recovered from Zone 2 of the positive shovel tests includes a metavolcanic bifacial thinning flake, a quartz bifacial thinning flake, and two aphyric rhyolite interior flakes. Shovel testing revealed a three-zone soil profile at the site with Zone 1 typically a dark yellowish brown (10YR 4/4) sandy loam plow zone approximately 25 cm in thickness, Zone 2 typically an olive yellow (2.5Y 6/6) sandy E-horizon 13 to 30 cm in thickness, and Zone 3 a brownish yellow (10YR 6/8) sandy clay subsoil. All three zones contained some evidence of bioturbation from tree roots.

IN DEPTH EVALUATION: The overall size of the site area (197 x 86 m) and the quantity of artifacts recovered during shovel testing steered the decision to excavate four 1-x-1-m test units intended to explore the integrity of the site (Table 4.3-21). Test Unit 1 was placed between Shovel Tests 18 and 60, an area found to contain the highest density of lithics during shovel testing. Test Unit 2 was placed between Shovel Tests 14 and 23, an area with the second highest lithic density. Test Unit 3 was excavated between Shovel Tests 4 and 43, since this area was one of the few locations at the site to yield cultural material from Zone 2. Test Unit 4 was excavated between Shovel Tests 8 and 25, an area containing historic artifacts near a historic well found within the site. The well contains exposed bedrock walls, thus lacking a brick or field stone lining. Besides the well, no other features or intact buried deposits were encountered. Only one Native American diagnostic artifact was recovered from the site, a Savannah River Stemmed point base (located in Zone 1 of Test Unit 3), which dates to the Late Archaic (Figure 4.3-37) (Coe 1964:44).

Test Unit 1 yielded 49 unattributed Native American lithic artifacts, which is the highest concentration of cultural materials recovered at the site (Tables 4.3-22). These artifacts derived from the plow zone of the unit, with the exception of a single aphyric rhyolite interior flake, which was recorded in Zone 2. Test Unit 1 contained a three-zone soil profile: Zone 1, a brown (10YR 5/3) sandy loam plow zone 30 cm in thickness; Zone 2, a brownish yellow (10YR 6/6) sandy E-horizon 18 cm in thickness; and Zone 3, a pale yellow (2.5Y 7/4) fine sandy layer. Test Unit 1 lacked features, and the only sign of disturbance was bioturbation (Figures 4.3-38 and 4.3-39).

Test Unit 2 yielded eight artifacts (Tables 4.3-23). These materials include two metavolcanic bifacial thinning flakes, a plagioclase porphyritic rhyolite interior flake, four metavolcanic interior flakes, and a quartz flake. More than half of these cultural materials were recovered



Figure 4.3-37: Native American Artifacts from 31WA1983&1983**: a) Late Stage Biface (Acc.# 2017.0053.01); b) Savannah River Stemmed Point Base (Acc.# 2017.0053.35).

×	31WA1983&1983** Test Unit 1 North Profile
Zone l	Ground Surface
	Key: — Distinct Boundary
Zone 2	Unexcavated
	Centimeters
Zone 3	Inches 0 5 10
Zone 1 – 10YR 5/3 Brown Sandy Loam (Plow Zone) Zone 2 – 10YR 6/6 Brownish Yellow Sand (E-horizon) Zone 3 – 2.5Y 7/4 Pale Yellow Fine Sand (Subsoil)	

Figure 4.3-38: Site 31WA1983&1983**, Test Unit 1, Sketch of North Profile.



Figure 4.3-39: 31WA1983&1983**, Test Unit 1, Photograph of North Profile.



Figure 4.3-40: Site 31WA1983&1983**, Test Unit 2, Sketch of North Profile.



Figure 4.3-41: 31WA1983&1983**, Test Unit 2, Photograph of North Profile.

from Zone 2 of the unit. Excavation of Test unit 2 revealed a three-zone soil profile: Zone 1, a brown (10YR 4/3) sandy loam plow zone 22 cm in thickness; Zone 2, a light brownish gray (10YR 6/2) coarse sandy loam lens in the northwest corner 8 cm in thickness; and Zone 3, a gray (10YR 5/1) sandy clay subsoil. This unit lacked features and the only sign of disturbance was bioturbation (Figures 4.3-40 and 4.3-41).

Object	Count
Indeterminate Native American Ceramic	1
Quartz Savannah River Stemmed Point Base	1
Indeterminate Late Stage Biface	1
Quartz Utilized Flake	1
Metavolcanic Decortication Flake	1
Aphyric Rhyolite Bifacial Thinning Flake	2
Metavolcanic Bifacial Thinning Flake	35
Quartz Bifacial Thinning Flake	4
Quartz Porphyritic Rhyolite Bifacial Thinning Flake	2
Aphyric Rhyolite Interior Flake	4
Metavolcanic Interior Flake	43
Plagioclase Porphyritic Rhyolite Interior Flake	2
Plagioclase-Quartz Porphyritic Rhyolite Interior Flake	1
Quartz Interior Flake	26
Quartz Porphyritic Rhyolite Interior Flake	2
Quartzite Interior Flake	1
Aphyric Rhyolite Flake Fragment	3
Quartz Shatter	1
Whiteware	2
Amethyst Container Glass	1
Colorless Container Glass	1
Aqua Window Glass	2
Unidentified Metal	1
Indeterminate	1
Total	139

Table 4.3-21: Summary of Artifacts Recovered from 31WA1983&1983**.

Table 4.3-22:	Summary	of Artifacts	Recovered	from '	Test Ur	nit 1 a	t 31WA	1983&1	983**	, by
Zone and Leve	el.									

Object	Zone/Level	Count	Percentage in Test Unit
Metavolcanic Bifacial Thinning Flake	1/1	9	18.37%
Quartz Porphyritic Rhyolite Bifacial Thinning Flake	1/1	1	2.04%
Metavolcanic Interior Flake	1/1	5	10.20%
Plagioclase Porphyritic Rhyolite Interior Flake	1/1	1	2.04%
Quartz Interior Flake	1/1	1	2.04%
Quartz Porphyritic Rhyolite Interior Flake	1/1	1	2.04%

Aphyric Rhyolite Flake Fragment	1/1	1	2.04%
Metavolcanic Bifacial Thinning Flake	1/2	7	14.29%
Quartz Bifacial Thinning Flake	1/2	1	2.04%
Aphyric Rhyolite Interior Flake	1/2	1	2.04%
Metavolcanic Interior Flake	1/2	8	16.33%
Quartz Interior Flake	1/2	2	4.08%
Aphyric Rhyolite Bifacial Thinning Flake	1/3	1	2.04%
Metavolcanic Bifacial Thinning Flake	1/3	3	6.12%
Quartz Porphyritic Rhyolite Bifacial Thinning Flake	1/3	1	2.04%
Metavolcanic Interior Flake	1/3	5	10.20%
Aphyric Rhyolite Interior Flake	2/1	1	2.04%
Total		49	100.00%

Table 4.3-23: Summary of Artifacts Recovered from Test Unit 2 at 31WA1983&1983**, by Zone and Level.

Object	Zone/Level	Count	Percentage in Test
			Unit
Metavolcanic Interior Flake	1/1	2	25.00%
Quartz Interior Flake	1/1	1	12.50%
Metavolcanic Bifacial Thinning Flake	2/1	1	12.50%
Metavolcanic Interior Flake	2/1	2	25.00%
Metavolcanic Bifacial Thinning Flake	2/2	1	12.50%
Plagioclase Porphyritic Rhyolite Interior Flake	2/2	1	12.50%
Total		8	100.00%

Test Unit 3 recovered 20 artifacts (Table 4.3-24). These materials were primarily located in the plow zone of the unit, but a single piece of aqua window glass (the only historic artifact recovered from the unit) was located in Zone 2 of the test. The Native American artifacts located in the unit included a sherd of angular quartz-tempered ceramic, the fragment of a quartz Savannah River Stemmed point (base), three metavolcanic bifacial thinning flakes, a quartz bifacial thinning flakes, three metavolcanic interior flakes, eight quartz interior flakes, and an aphyric rhyolite flake fragment.

Table 4.3-24: Summary of Artifacts Recovered from Test Unit 3 at 31WA1983&1983**, by Zone and Level.

Object	Zone/Level	Count	Percentage in Test Unit
Indeterminate Native American Ceramic	1/1	1	5.00%
Metavolcanic Bifacial Thinning Flake	1/1	1	5.00%
Metavolcanic Interior Flake	1/1	1	5.00%
Quartz Interior Flake	1/1	3	15.00%
Aphyric Rhyolite Flake Fragment	1/1	2	10.00%
Quartz Savannah River Stemmed Point Base	1/2	1	5.00%
Metavolcanic Bifacial Thinning Flake	1/2	2	10.00%
Quartz Bifacial Thinning Flake	1/2	1	5.00%
Metavolcanic Interior Flake	1/2	1	5.00%

Quartz Interior Flake	1/2	3	15.00%
Metavolcanic Interior Flake	1/plow scar	1	5.00%
Quartz Interior Flake	1/plow scar	2	10.00%
Aqua Window Glass	2/1	1	5.00%
Total		20	100.00%

Test Unit 3 contained a three-zone soil profile: Zone 1, a brown (7.5YR 4/2) sandy loam plow zone 20 cm in thickness; Zone 2, a brown (10YR 5/4) sandy loam E-horizon 18 cm in thickness; Zone 3, a strong brown (7.5YR 5/6) sandy clay subsoil. The unit did not contain features but exhibited signs of disturbance from bioturbation (Figures 4.3-42 and 4.3-43).

Test Unit 4 yielded the smallest quantity of cultural material of the units excavated at the site, with only three historic artifacts recovered from the plow zone of the unit. These items include a piece of solarized/manganese dioxide decolorized container glass, a piece of aqua window glass, and an indeterminate corroded metal fragment. Solarized/manganese dioxide decolorized container glass dates from the 1820s to the 1930s (Lindsey 2017). Excavation of the unit revealed a two-zone soil profile with Zone 1 a yellowish brown (10YR 5/4) sandy loam plow zone 26 cm in thickness, and Zone 2 a brownish yellow (10YR 6/6) sandy clay loam subsoil. Test Unit 4 had no features, and the only sign of disturbance was bioturbation (Figures 4.3-44 and 4.3-45).

The excavation of test units revealed an extensive history of plowing at the site, an activity predating the fully grown planted pine forest currently covering the site area. Plowing has widely dispersed the artifacts at the site, and the majority of the assemblage derived from the plow zone. Subsequently, no real defined concentrations of artifacts were encountered in the test units excavated. However, more historic artifacts were recovered around the aforementioned well that is situated in the south corner of the site. Also, with regards to the site assemblage, Test Units 1 and 3 yielded the majority of the artifacts. The lithic debitage recovered was similar across the site, suggesting that these deposits were from the same depositional event. The two Native American ceramic sherds recovered from this site are indeterminate due to their small size (under 2 cm in maximum dimension). Test Unit 4 was unique in that it contained only historic artifacts.

RECOMMENDATIONS: Despite the recovery of diagnostic artifacts, the site lacks evidence of intact subsurface deposits. Clear disturbance from continuous plowing suggests this site has little potential to provide additional information on Native American or historic lifeways of the Piedmont region of North Carolina. This site is recommended not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA1984**

SITE TYPE: McCullers Family Cemetery: ca. 1825-1964
SOIL TYPE: Cecil sandy loam, 6 to 10 percent slopes, moderately eroded, and Faceville sandy loam, 6 to 10 percent slopes, moderately eroded
SITE SIZE: 35 x 65 m
DATE: ca. 1825-1964
COMMENTS: The McCullers Family Cemetery is a small cemetery located west of US 401/Fayetteville Road and south of Ten Ten Road, close to Wake Technical Community College



Figure 4.3-42: Site 31WA1983&1983**, Test Unit 3, Sketch of West Profile.



Figure 4.3-43: 31WA1983&1983**, Test Unit 3, Photograph of West Profile.



Figure 4.3-44: Site 31WA1983&1983**, Test Unit 4, Sketch of North Profile.



Figure 4.3-45: 31WA1983&1983**, Test Unit 4, Photograph of North Profile.



Figure 4.3-46: Sketch Map of McCullers Family Cemetery (31WA1984**).



Figure 4.3-47: General View of the McCullers Family Cemetery (31WA1984**).



Figure 4.3-48: Gravemarker for Captain Mathew Jones McCullers at 31WA1984**.
(Figures 4.3-46 and 4.3-47). It is on the south side of Donny Brook Road in an area of trees and brush, some distance west of the site of a house ruin (recorded 31WA1986**) that was owned by members of the McCullers family. This is in the vicinity of the unincorporated community of McCullers, which is centered on the intersection of US 401/Fayetteville Road and Ten Ten Road.

The McCullers Cemetery was established by the 1820s, as the earliest death recorded on a gravemaker in the cemetery is that of Captain Mathew Jones McCullers in 1825 (Figure 4.3-48). The last recorded death is Harriet Stephenson McCullers in 1964 (Figure 4.3-49). Gravemarker inscriptions record the names of 18 individuals buried in the cemetery (Table 4.3-25), but additional unmarked interments are very likely. Notable burials at this cemetery include Captain McCullers, who was an American Revolutionary War veteran and former Wake County sheriff, and Dr. Joseph James Lane McCullers (Figure 4.3-50), who served as Wake County Superintendent of Health in the early 1900s and was a founder of the Wake County Medical Society.

Table 4.3	8-25:	List of In	ndividuals	Buried at	the l	McCuller	s Family	Cemeter	y Based on
Gravema	rker]	Inscriptio	ns.						

Marker	Material	Туре	Faces	Description
				West Face: Captain Mathew McCullers (1759-1825) "A
1			NW &	gallant revolutionary soldier," his wife Sarah Lane (1753-
	Granite	Group	SF	1843); East Face: J. J. L. [John Joseph Lane] McCullers
			5L	(1810-1880), his wife Willia Richardson Nance (1817-1901),
				Mathew McCullers Jr. (1806-1874)
2	Marble	Head	SE	M. McC. [Captain Mathew McCullers]
3	Marble	Head	SE	S. L. McC. [Sarah Lane McCullers]
4	Marble	Head		M. McC. Jr. [Mathew McCullers, Jr.] (Stone lying flat next
-	Marole	Tiedd		to Marker #1, may be in secondary context)
5	Granite	Haad	SE	Joseph James Lane McCullers, M.D. (1851-1926), his wife
5	Granite	Ticau	SE	Alice Perkinson (1858-1934)
6	Granita	Foot	SE	Footstone: J. J. L. M. [Dr. Joseph James Lane McCullers,
0	Orallite	1000	SE	M.D. (1851-1926)]
7	Granite	Foot	SE	Footstone: A. P. M. [Alice Perkinson McCullers (1858-
7		1000	SE	1934)]
8	Granite	Head	SE	Alice Perkinson McCullers (1887-1930)
0	Granite	Foot	SE	Footstone: A. P. M. [Alice Perkinson McCullers (1887-
9				1930)]
		Head	SE	George Nance Rand ("son 14 years old at death"), Edward
10	Granite			Lee Rand (1862-1927), Rebecca McCullers Rand (1861-
				1936)
11	Granite	Head	SE	Flora McCullers Heflin (1853-1926)
12	Marble	Head	SE	Robert Louis Heflin, Jr. (Pvt., 156 Depot Brigade, died 1937)
				George Matthew McCullers (1856-1939), Almira Johnson
13	Granite	Head	SE	McCullers (1856-1894), Harriet Stephenson McCullers
				(1879-1964)
14	Granite	Head	SE	Harriet Stephenson McCullers (1879-1964)
15	Marble or	Haad	SE	Willia McCullers Adling (1856 1027)
15	Limestone	пеаа		while McCullers Adkins (1856-1927)
16	Marble or	Hand	SW	Sam McCullough ("Diad August 2, 1024, Ago 60 Verge")
10	Limestone	пеац		Sam McCunougn (Died August 2, 1924, Age 60 Years)
17	Limestone?	Foot?	N/A	Blank (Sam McCullough footstone?)



Figure 4.3-49: Gravemarker for Harriet Stephenson at 31WA1984**.



Figure 4.3-50: Twentieth-Century Gravemarker at 31WA1984**.

The cemetery has no surviving boundary fence or wall. As a result, it is difficult to determine the extent of potential unmarked graves. A low earthen berm is located to the east of the marked graves and likely represents the boundary between the cemetery and a small cultivated field that once existed between the cemetery and the house (USGS Earth Explorer 1973). The berm may have merely been built up through years of plowing rather than as an intentional demarcation of the cemetery edge. At the time of survey on December 14, 2016, the surrounding property, and that on the opposite side of Donny Brook Road, had been clear cut within the last decade. This clear cut area has become dominated by brush and small trees. Some older trees remain in the cemetery area, but the cemetery itself is also overgrown.

IN-DEPTH EVALUATION: Mathew McCullers (1759-1825) served as a captain in the Johnston County Regiment of the North Carolina militia during the Revolutionary War. He was commissioned April 19, 1777, and served until 1781. According to a pension application filed by Mathew McCullers's widow, Sarah Lane McCullers, Mathew McCullers participated in the Battle of Moore's Creek (North Carolina), the Battle of Brier Creek (Georgia), the Siege of Charleston (South Carolina), and the Battle of Lindley's Mill (North Carolina). Mathew McCullers received a land warrant for his military service in October of 1783, and he was an original member of the North Carolina Society of the Cincinnati. Records also indicate he served as High Sheriff of Wake County for a time (Babits and Howard 2004; Lewis 2012:133, 2017; United States National Archives n.d.) Sarah Lane McCullers (1763-1843) was likely a niece of Colonel Joel Lane, a founder of Raleigh, through his brother Thomas (Joel Lane Museum House 2017; Lane 1798).

Dr. Joseph McCullers, M.D. (1851-1926), a grandson of Mathew McCullers, was a local physician, born and raised at the "old family seat of McCullers in Wake County" (Lewis Publishing Company 1919:155). He graduated from the College of Physicians and Surgeons in Baltimore, Maryland in 1886, then returned home to practice medicine. Dr. McCullers served as Wake County Superintendent of Health and coroner in the early 1900s, organized the Wake County Medical Society and was its first president, and worked as a surgeon for the Norfolk and Southern Railway and the Raleigh and Cape Fear Railroad. He also owned a farm (Lewis Publishing Company 1919:155; North Carolina State Board of Health 1904:17).

Also buried here are two of Mathew and Sarah McCullers's sons, Mathew McCullers, Jr. (1806-1874) and John Joseph Lane McCullers (1810-1880), along with John's wife Willia Richardson Nance McCullers (1817-1901) (see Table 4.3-25). According to U.S. Federal Census records (1860, 1870), John and Willia had at least 11 children, including Dr. Joseph McCullers. At least five of those children are buried here: Dr. Joseph McCullers, Flora McCullers Heflin, Rebecca McCullers Rand, Willie McCullers Adkins, and George Matthew McCullers (see Table 4.3-25). Spouses and children of these individuals are also buried here, including Flora's son Robert Louis Heflin, Jr. (1896-1937) who served as a Private in the 156 Depot Brigade at Camp Jackson (now Fort Jackson) in South Carolina during World War I (United States War Department 1937; Fort Jackson 2017; United States Army Basic Combat Training Museum 2016:94, 99-101) (Figure 4.3-51). According to an application for a U.S. Military veteran's headstone, Private Heflin enlisted in August of 1918 and was honorably discharged in December of that same year (United States War Department 1937).



Figure 4.3-51: World War I Veteran's Gravemarker at 31WA1984**.



Figure 4.3-52: Another Example of Twentieth-Century Gravemarker at 31WA1984**.

Also buried at McCullers Cemetery is Sam McCullough, who died at the age of 60 in 1924 (Figure 4.3-52). McCullough's headstone stands well apart from the others at the western end of the cemetery (Marker #16, see Figure 4.3-47), and faces more or less southwest, unlike all of the other inscribed stones observed at the site, which face southeast (although Marker #1 is inscribed on both the southeast and southwest faces). Attempts to find records of Sam McCullough were inconclusive. His relation to the McCullers family or their in-laws is unknown. His stone is decorated with a bas-relief carving of leaves on a vine—perhaps a grape vine—and an anchor.

The majority of the larger inscribed markers are made of gray granite. The exceptions are the marble veteran's marker for Robert Louis Heflin, Jr. (Marker #12), and the markers for Willie McCullers Adkins (Marker #15) and Sam McCullough (Marker #16), which are made of marble or limestone. These stones are also of very different styles than the others present. Robert's stone is a standard upright military gravemarker. Willie's stone is very ornate, with a relief carving of a dove carrying a rose (Figure 4.3-53). In addition to the anchor and vine carving, McCullough's stone differs from the others in that it is inscribed in a serif font (see Figure 4.3-52). Captain Mathew McCullers (Marker #2), Sarah McCullers (Marker #3), and Mathew McCullers, Jr. (Marker #4) each have a small, individual marker made of marble and inscribed with their initials (Figure 4.3-54). This is in addition to their names being recorded on a large, granite group monument that also records the names of John and Willia McCullers (Marker #1). Dr. Joseph McCullers, his wife Alice Perkinson McCullers, and their daughter Alice all have small, granite footstones inscribed with their initials (Markers #6, 7, and 9). A small, blank stone stands upright a short distance from Sam McCullough's headstone and may be a footstone for his grave (Marker #17).

Several broken pieces of dressed stone without inscriptions—and possibly in secondary context—were observed during survey, as well as a number of unaltered rocks that may have served as gravemarkers. Smaller individual markers for John and Willia McCullers may be hidden in the brush and leaf litter in the vicinity of the large group marker that bears their names. The McCullers family owned slaves as of Captain McCullers death in 1825 (McCullers 1826). It is possible that slaves owned by the family are buried here.

RECOMMENDATIONS: To be eligible for the NRHP, a cemetery must retain integrity and be associated with significant historic events or trends (Criterion A) or the lives of significant persons (Criterion B), or possess significant design or construction value (Criterion C) or valuable information potential (Criterion D). In addition, cemeteries must meet specific Criteria Consideration requirements. Criteria Consideration D most often applies, which stipulates that a cemetery is eligible "if it derives its primary significance from graves of persons of transcendent importance, from age, from distinctive design features, or from association with historic events." In other words, within the appropriate historic context cemeteries must represent more than their general commemorative purpose (Potter and Boland 1992: 9-17).

As discussed above, McCullers Cemetery is the burial place of Captain Mathew McCullers, a veteran of the American Revolutionary War and former Wake County High Sherriff, and a number of his descendants, including former Wake County Superintendent of Health Dr. Joseph McCullers. Consequently, McCullers Cemetery has a direct association with the Revolutionary



Figure 4.3-53: Ornate Gravemarker at 31WA1984**.



Figure 4.3-54: Individual Gravemarker for Captain Mathew Jones McCullers at 31WA1984**.

War as well as the history of Wake County. It is likely the property best associated with Captain Mathew McCullers and Dr. Joseph McCullers at present. Research did not indicate, however, that the cemetery, alone, represents an important aspect of the area's history or that Captain Mathew McCullers or Dr. Joseph McCullers can be considered prominent, "transcendent" local historical figures (Potter and Boland 1992:16). It is simply the burial place for several generations of a family and associated individuals that dates from the post-Revolutionary through mid-twentieth-century periods in the county's history. The McCullers family has a history of farming in the area, and of involvement with military service and Wake County law enforcement and healthcare, but has not made demonstrably important contributions within that context. As such, the McCullers Cemetery is recommended not eligible for the NRHP under Criteria A and B.

Under Criterion C, McCullers Cemetery represents a typical family cemetery with a standard array of headstones and monuments. None of the grave markers could be considered "high style" or the work of a master. The setting of McCullers Cemetery is informal, without a surviving boundary fence or walls. It is also fairly overgrown and its overall setting cannot be said to convey the most important periods of use of the cemetery. McCullers Cemetery is also not distinctive for its size or its 18 known interments and unknown number of unmarked graves. There are numerous small family cemeteries in Wake County (Cemetery Census 2017; Find a Grave 2017). Without measurable design or construction value, McCullers Cemetery is recommended not eligible under Criterion C.

Historic properties, including cemeteries, may be eligible for the NRHP under Criterion D if they have yielded, or may be likely to yield, information important in prehistory or history. Cemeteries may meet the requirements of Criterion D for their potential to provide important archaeological information about cultural and ethnic groups or for the study of material culture and social history. For example, African American graves can reveal evidence of practices associated with customs and beliefs of West African cultures (Potter and Boland 1992:14). Investigations of burials within McCullers Cemetery have the potential to result in the recovery of objects associated with the burials that may reflect distinctions in ethnic identity and social or economic status in Wake County in the nineteenth through mid-twentieth centuries. McCullers Cemetery is not unique in this regard, however, as many of the other family cemeteries in the county likely harbor similar information. While the cemetery retains integrity in the sense that there is no evidence any of the interments themselves have been compromised by ground-disturbance, McCullers Cemetery is recommended not eligible for the NRHP under Criterion D.

SITE NUMBER: 31WA1985&1985**

SITE TYPE: Native American lithic scatter: Late Archaic to Late Woodland; Historic scatter: late eighteenth to mid twentieth centuries

SOIL TYPE: Wagram loamy sand, 0 to 2 percent slopes

SITE SIZE: 214 x 166 m (702 x 544 ft)

SELECTED ARTIFACTS: quartz Savannah River Stemmed point, indeterminate Savannah River Stemmed point, aphyric rhyolite small triangular Point, quartzite decortication flake, aphyric rhyolite bifacial thinning flakes, metavolcanic bifacial thinning flakes, quartz bifacial thinning flakes, plagioclase porphyritic rhyolite bifacial thinning flake, quartzite bifacial thinning flake, aphyric rhyolite interior flakes, metavolcanic interior flakes, quartz interior flakes,



Figure 4.3-55: Map of Site 31WA1985&1985**. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-56: View of Site 31WA1985&1985**, Looking Southeast.

metavolcanic flake fragment, quartz porphyritic rhyolite interior flakes, quartzite interior flakes, quartzite fragment, quartzite tabular rock, quartzite unmodified cobble, transfer-printed and edged pearlware, undecorated and hand-painted whiteware, aqua container glass, colorless container glass, green container glass, opaque white "milk glass" container glass, gray container glass, aqua window glass, white ball clay pipe stem, brick fragment

COMMENTS: This large multicomponent scatter was initially encountered during shovel testing in an area that was logged within the last decade (Figures 4.3-55 and 4.3-56). It is situated on a wide upland flat just west of US 401, north of Donny Brook Road. A young planted pine forest full of brambles and dense brush now engulfs the site area. Several positive shovel tests (33 positive tests of 97 shovel tests excavated) revealed different concentrations of artifacts within the site boundary and precipitated the excavation of test units at the site. The site assemblage (n=182) was primarily recovered through shovel testing and test unit excavation; however, a quartz Savannah River Stemmed point midsection fragment and a quartz interior fragment were each recovered from the ground surface of the site. Savannah River Stemmed points date to the Late Archaic period (Coe 1964:44-45). Cultural materials encountered during shovel testing were recovered from Zones 1, 2, and 3 at the site. A three-zone soil profile was revealed during shovel testing: Zone 1, a dark grayish brown (10YR 4/2) sandy loam plow zone approximately 10 cm in thickness; Zone 2, a brownish yellow (10YR 5/4) sandy loam buried plow zone approximately 15 cm in thickness; and Zone 3, a very pale brown (10YR 7/4) sand mottled with a strong brown (7.5YR 5/6) sandy clay. All three zones contained evidence of bioturbation from roots.

The historic artifacts recovered from Zone 1 of positive shovel tests at the site include two whiteware fragments, a piece of opaque white "milk glass", 17 pieces of green container glass, a piece of aqua container glass, 12 pieces of colorless container glass, and a brick fragment. Historic items recovered from Zone 2 of positive shovel tests at the site include a fragment of pearlware, two fragments of whiteware, and a piece of aqua window glass (Figure 4.3-57). Pearlware dates from 1785 to 1840 (FMNH 2017). Whiteware dates from the 1830 to the present (Miller et al. 2000). Milk glass ranges in date from primarily the 1870s to the mid twentieth century (Lindsey 2017).

The Native American artifacts recovered from Zone 1 of positive shovel tests at the site include a metavolcanic bifacial thinning flake, three metavolcanic interior flakes, a quartz porphyritic rhyolite interior flake, four aphyric rhyolite interior flakes, seven quartz interior flakes, and two quartzite interior flakes. The Native American items recovered from Zone 2 of positive shovel tests include an indeterminate ceramic sherd, a fragmented small triangular point (missing the tip), a fragmented Savannah River Stemmed point (missing the tip), four metavolcanic bifacial thinning flakes, and five aphyric rhyolite thinning flakes. The ceramic sherd recovered contains an indeterminate surface treatment but it may be a Yadkin series body sherd based on the presence of angular quartz temper found within the matrix (the Yadkin series dates to the Middle Woodland period between approximately 500 B.C. and A.D. 800) (Coe 1964:30-32; Ward and Davis 1999:86). Small triangular points are associated with the Late Woodland period, and are generally correlates of types such as Caraway Triangular and Madison (Justice 1997:224-230).



Figure 4.3-57: Historic Artifacts from 31WA1985&1985**: a) Hand-Painted Whiteware (Acc.# 2017.0054.37); b) Edged Pearlware (Acc.# 2017.0054.58).

IN DEPTH EVALUATION: Based on the large size of the site and artifact concentrations encountered during shovel testing, four 1-x-1-m test units were excavated to explore site integrity. Test Unit 1 was excavated between Shovel Tests 3, 4, and 9, an area with the highest lithic density during shovel testing. Test Unit 2 was excavated between Shovel Tests 29 and 71, as a Native American ceramic sherd was recovered from this area. Test Unit 3 was excavated between Shovel Tests 1 and 8, an area that yielded historic artifacts. Test Unit 4 was excavated between Shovel Tests 27 and 34 since, an area with the second highest density of lithics.

Test Unit 1 contained only four artifacts. Excavation of the unit revealed a three-zone profile: Zone 1, a dark yellowish brown (10YR 4/4) loamy sand plow zone 8 cm in thickness; Zone 2, a yellowish brown (10YR 5/4) loamy sand buried plow zone 12 cm in thickness; and Zone 3, a light yellowish brown (10YR 6/4) sandy E-horizon. Test Unit 1 had no features, and the only sign of disturbance appeared to be from bioturbation and plowing (Figures 4.3-58 and 4.3-59). The artifacts recovered from the unit, derived from Zone 2, Level 3 and include three metavolcanic interior flakes and one quartz interior flake.

Test Unit 2 contained 36 artifacts (Table 4.3-26). Excavation of the unit revealed a three-zone profile: Zone 1, a dark grayish brown (10YR 4/2) loamy sand plow zone 13 cm in thickness that is mixed with organic materials; Zone 2, a dark grayish brown (10YR 4/2) loamy sand buried plow zone mottled with pale yellow (2.5Y 7/4) sand 8 cm thickness; and Zone 3, a pale yellow (2.5Y 7/4) sandy E-horizon with high moisture content. Test Unit 2 did not contain features, and the only type of disturbance appeared to be from bioturbation and plowing (Figures 4.3-60 and 4.3-61). Half of the artifacts recorded in the unit derived from Zone 3, Level 3. Artifacts diminished in density with each subsequent level. The only historic artifacts recovered from the unit are a piece of gray container glass from Zone 1, and a white ball clay pipe stem from Zone 2. Native American artifacts recovered from the unit include decortication flakes, bifacial thinning flakes, and interior flakes.

Objects	Zone/Level	Count	Percentage in Test Unit
Quartz Interior Flake	1/1	1	2.78%
Gray Container Glass	1/1	1	2.78%
Quartz Interior Flake	2/2	4	11.11%
White Ball Clay Pipe Stem Fragment	2/2	1	2.78%
Quartzite Decortication Flake	3/3	1	2.78%
Quartz Bifacial Thinning Flake	3/3	3	8.33%
Aphyric Rhyolite Interior Flake	3/3	3	8.33%
Metavolcanic Interior Flake	3/3	4	11.11%
Quartz Interior Flake	3/3	7	19.44%
Aphyric Rhyolite Interior Flake	3/4	1	2.78%
Metavolcanic Interior Flake	3/4	1	2.78%
Quartz Interior Flake	3/4	5	13.89%
Quartz Bifacial Thinning	3/5	1	2.78%
Quartz Interior Flake	3/5	1	2.78%

Table 4.3-26: Summary of Artifacts Recovered from Test Unit 2 at 31WA1985&1985**, by Zone and Level.



Figure 4.3-58: Site 31WA1985&1985**, Test Unit 1, Sketch of North Profile.



Figure 4.3-59: 31WA1985&1985**, Test Unit 1, Photograph of North Profile.



Figure 4.3-60: Site 31WA1985&1985**, Test Unit 2, Sketch of West Profile.



Figure 4.3-61: 31WA1985&1985**, Test Unit 2, Photograph of West Profile.

Metavolcanic Bifacial Thinning Flake	3/6	1	2.78%
Metavolcanic Interior Flake	3/6	1	2.78%
Total		36	100.00%

Test Unit 3 contained 13 artifacts (Table 4.3-27). Excavation of the unit revealed a three-zone soil profile: Zone 1, a dark grayish brown (10YR 4/2) loamy sand plow zone 10 cm in thickness, Zone 2, a brown (10YR 5/4) loamy sand buried plow zone 20 cm in thickness; and Zone 3, a very pale brown (10YR 7/4) sandy E-horizon mottled with yellowish brown (7.5YR 5/6) sandy clay. The unit lacked features, and the only disturbance appeared to be from bioturbation and plowing (Figures 4.3-62 and 4.3-63). Zones 2 and 3 of the test contained about the same number of artifacts. The historic component of Test Unit 3 was limited to a single fragment of blue transfer-printed pearlware, which was recorded in Zone 1. Transfer-printed pearlware dates from 1784 to 1840 (FMNF 2017). The Native American lithic artifacts recovered from the unit include bifacial thinning, interior flakes, an unmodified tabular rock, and flake fragments.

Table 4.3-27: Summary of Artifacts Recovered from Test Unit 3 at 31WA1985&1985**, by Zone and Level.

Object	Zone/Level	Count	Percentage in Test Unit
Transfer-Printed Pearlware	1/1	1	7.69%
Metavolcanic Bifacial Thinning Flake	2/1	1	7.69%
Quartz Bifacial Thinning Flake	2/1	1	7.69%
Aphyric Rhyolite Interior Flake	2/1	1	7.69%
Metavolcanic Interior Flake	2/1	2	15.38%
Metavolcanic Interior Flake	3/1	1	7.69%
Quartz Interior Flake	3/1	1	7.69%
Quartzite Unmodified Tabular Rock	3/1	1	7.69%
Aphyric Rhyolite Bifacial Thinning Flake	3/2	1	7.69%
Aphyric Rhyolite Interior Flake	3/2	1	7.69%
Metavolcanic Interior Flake	3/2	1	7.69%
Quartz Interior Flake	3/2	1	7.69%
Total		13	100.00%

Test Unit 4 contained only five artifacts. Excavation of the unit revealed a three-zone soil profile: Zone 1, a dark brown (10YR 3/3) silty loam plow zone 12 cm in thickness; Zone 2, a light brownish gray (10YR 6/2) sandy loam buried plow zone 20 cm in thickness; Zone 3, a very pale brown (10YR 7/4) sandy E-horizon. The unit lacked features but it did contain evidence of a burnt out tree stump in the north wall of the unit. Disturbances from plowing and bioturbation were also present in the unit (Figures 4.3-64 and 4.3-65). The historic artifacts recovered from the unit derived from Zone 2 of the test and include an undecorated whiteware fragment and a blue-edged pearlware fragment. Whiteware dates from 1830 to present (Miller et al. 2000). Pearlware dates from 1785 to 1830 (FMNF 2017). The Native American derived from Zone 3 of the test and includes two bifacial thinning flakes and a quartz interior flake. Excavation of the test units revealed that the site did not actually contain concentrations of artifacts, as was initially believed during shovel testing. This site has been heavily impacted by plowing which accounts



Figure 4.3-62: Site 31WA1985&1985**, Test Unit 3, Sketch of North Profile.



Figure 4.3-63: 31WA1985&1985**, Test Unit 3, Photograph of North Profile.



Figure 4.3-64: Site 31WA1985&1985**, Test Unit 4, Sketch of North Profile.



Figure 4.3-65: 31WA1985&1985**, Test Unit 4, Photograph of North Profile.

for artifact dispersion. Table 4.3-28 summarizes the artifacts recovered from the site. The test units yielded a third of the overall assemblage with very few items deriving from the upper plow zone of these tests (only three artifacts). Most artifacts derived from Zone 2 (buried plow zone) and Zone 3 (E-Horizon) of the test unit and positive shovel tests at the site. Most historic artifacts were located in the Zone 1 (plow zone), but two fragments of pearlware and the pipe stem were located in Zone 2 at the site. Both of the points recovered from the site were located in Zone 2. Zone 3 contained the least amount of artifacts, yielding only lithic debitage. The types of lithic materials recovered are similar across the site, suggesting that these deposits were from a limited period of occupation. The historic artifacts are less similar across the site given the presence of pearlware and later material such as opaque white container glass.

Object	Count	
Native American Yadkin Series Ceramic	1	
Quartz Savannah River Stemmed Point		
Indeterminate Savannah River Stemmed	1	
Aphyric Rhyolite Small Triangular Point	1	
Aphyric Rhyolite Bifacial Thinning Flake	6	
Quartzite Decortication Flake	1	
Metavolcanic Bifacial Thinning Flake	11	
Plagioclase Porphyritic Rhyolite Bifacical Thinning Flake	1	
Quartz Bifacial Thinning Flake	5	
Quartzite Bifacial Thinning Flake	1	
Aphyric Rhyolite Interior Flake	18	
Metavolcanic Interior Flake	37	
Quartz Interior Flake	46	
Quartz Porphyritic Rhyolite Interior Flake	2	
Quartzite Interior Flake	2	
Metavolcanic Flake Fragment	1	
Quartzite Fragment	1	
Quartzite Unmodified Cobble	1	
Quartzite Unmodified Tabular Rock	1	
Pearlware	3	
Whiteware	5	
Aqua Container Glass	1	
Colorless Container Glass	12	
Gray Container Glass	1	
Green Container Glass	17	
Opaque White Container Glass	1	
Aqua Window Glass	1	
White Ball Clay Pipe Stem	1	
Brick	1	
Indeterminate	1	
Total	182	

Table 4.3-28: Summary of Artifacts Recovered from 31WA1985&1985**.

RECOMMENDATIONS: Intensive subsurface disturbance from plowing and logging, as well as the low density of artifacts recovered from the test units, make it doubtful that the site has the potential to provide additional information on Native American or historic lifeways of the Piedmont region of North Carolina. This site is recommended not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA1986**

SITE TYPE: Historic structure ruin (near 31WA1984**): circa 1880 *SOIL TYPE:* Appling sandy loam, 2 to 6 percent slopes, moderately eroded *SITE SIZE:* 63 x 53 m (207 x 174 ft)

SELECTED ARTIFACTS: red transfer-printed white granite (ironstone)

COMMENTS: This historic ruin represents the remaining structure of a residence belonging to a member of the McCullers family. The site is located on the southwestern corner of the intersection of US 401/Fayetteville Road and Donny Brook Road (Figure 4.3-66). The site property is nearby the McCullers Cemetery. The house site and the cemetery were once separated by a small cultivated field (USGS Earth Explorer 1973). The house is now demolished but still contains floors and some wall studs. Inspection of this area revealed concrete steps and brick piers removed from their original context, the remains of a few outbuildings [including an older structure resting on undressed fieldstone (quartz) piers and built with mortise and tenon joinery, wooden pegs, and square nails], and a subterranean well (Figures 4.3-67 and 4.3-68). In addition to these structure ruins and the well, the surface of the site also contains historic cultural material (e.g., indeterminate glass, rusted farm equipment, discarded toys). The current property owner asked that objects not be removed from the site during the survey. Although not collected, a fragment of red transfer-printed white granite (ironstone) was documented in Zone 1 of Shovel Test 3 located to the southeast of the structures. White granite (ironstone) date ranges from the 1830s to the early twentieth century (JPPM 2017).

Shovel tests at the site generally revealed a three-zone soil profile: Zone 1, a brown (10YR 4/3) silt loam A-horizon approximately 12 cm in thickness; Zone 2, a yellowish brown (10YR 5/4) damp sandy loam E-horizon approximately 20 cm in thickness; and Zone 3, a yellowish red (5YR 5/8) wet clay subsoil. Many of the shovel tests became hydric or began to fill with water before excavation reached the subsoil. Modern trash is visible on the surface throughout the site and was also located in some of the shovel tests.

Leonard Rhodes, a neighbor who has lived, since 1957, in the home his father built located at 8336 Old McCullers Road, approximately 375 m east of the site, spoke with the Commonwealth archaeologists. Leonard explained that when he moved to the area at age 10, the house site was lived-in by Harriet McCullers, who at the time was around 90 years old. He spoke with reverence for Harriet McCullers, describing her as a McCullers by birth who never married. He went-on to say that Harriet's father had built her the house when she was a young adult, and that, at the time, her father was a person of great means. This suggests that the house was built in the third quarter of the nineteenth century. Leonard would chop wood for Harriet when he was kid since her kitchen had a wood-burning stove. He said that he enjoyed carrying the wood into Harriet's kitchen, which had a separate door on to the back of the house, because it afforded him



Figure 4.3-66: Map of Site 31WA1986**. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-67: View of Site 31WA1986**, Looking West.



Figure 4.3-68: Site 31WA1986** Example of Wooden Pegs and Boulder Pillar, Looking Southwest.

a chance to momentarily glimpse into her home, which he described as quite lovely. Leonard's wife remembers it as very fine place—a kind of place of wonder—although she had never been inside the house. Leonard explained that the house was never painted and that it was constructed with wood pegs rather than nails. Although the structures located at the site are in ruins and appear to have been abandoned for many years, the wood pegs that Leonard Rhodes spoke of during our discussion, are visible throughout the house ruin, as well as dovetail joinery. These buildings seem to be an amalgam of different construction styles from different periods. This suggests that the house was lived in for many years and altered, but the preservation of the different components makes it difficult to ascertain the exact timeline of the structures. *RECOMMENDATIONS:* Due to the ruinous nature of the structures and the lack of evidence for intact archaeological deposits, this site is unlikely to yield additional information on the historic occupation of the Piedmont region of North Carolina. Based on the structures' general state of disrepair, the lack of significant artifact deposits associated with their occupation, and the lack of significant historical associations. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

STIP R-2828

Segment L (STIP R-2828)	
Length	623.48 m (2,045.55 ft)
Area	41.88 ha (103.48 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	24.58 ha (60.74 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	6.45 ha (15.95 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	10.84 ha (26.79 acres)
Total # of Shovel Tests	51
Total # Sites Documented	
Total # Isolated Finds Documented	

Table 4.3-29:Segment L Survey Summary.

Segment L represents a portion of the project corridor approximately 623.48 m (2,045.55 ft) long and extends from US 401/Fayetteville Road in the west to the north-south section of Old McCullers Road in the east (see Figure 4.3-1b). The APE in the segment extends a total of approximately 2,363 m (7,752 ft) along US 401/Fayetteville Road, matching the extent of Segment K along that road. The segment spans both sides of the east-west segment of Old

McCullers Road. Soils in Segment L are primarily of the Appling, Cecil, and Wagram series, and the Wehadkee and Bibb series in combination, with lesser amounts of other soils present. The most extensive soil units in Segment L are Appling sandy loam, 2 to 6 percent slopes, moderately eroded and Wehadkee and Bibb soils, 0 to 2 percent slopes, frequently flooded. Appling and Cecil soils are classified as well-drained, Wagram soils are classified as somewhat excessively drained, and Wehadkee and Bibb soils are classified as poorly drained. At the time of the survey, the ground cover in Segment L, like Segment K, primarily consisted of recently logged and re-planted forest areas (with dense brush), woods, a disturbed utility corridor, roadways, and residential and commercial development. Development was most concentrated along US 401/Fayetteville Road and includes a portion of the Wake Technical Community College campus on the south side of Old McCullers Road. Ground surface visibility was low across the segment. Due to development and eroded soils, the portion of the segment subject to shovel testing was confined to north of Old McCullers Road and much of this area had been logged and re-planted in pine trees. The terrain in this part of the segment was generally level, but sloped down to a drainage at the eastern edge of the shovel tested area. Shovel tests were excavated at 30-m (98-ft) intervals. Areas of eroded and poorly drained soils were visually inspected at 30-m (98-ft) intervals. The survey crew inquired about two barns and a stone well behind a house on the north side of Old McCullers Road, but according to the property owner, Leonard Rhodes, the barns dated to the mid-twentieth century and the well was merely a nonfunctional decoration. Mr. Rhodes also mentioned that there was a forgotten cemetery in the woods on the Wake Technical Community College campus, but did not indicate where it was. Visual inspection of the portion of the campus within Segment L failed to uncover evidence of a cemetery. No archaeological resources were recorded in Segment L (see Figure 4.3-2b).

Segment M (STIP R-2828)	
Length	922.58 m (3,026.84 ft)
Area	30.05 ha (74.26 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	17.42 ha (43.05 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	.85 ha (2.11 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	.77 ha (1.9 acres)
Total Area Disturbed / Sloped / Low and Wet	11.01 ha (27.20 acres)
Total # of Shovel Tests	20
Total # Sites Documented	1
Total # Isolated Finds Documented	

Table 4.3-30: Segment M Survey Summary.

Segment M, which is a smaller segment at approximately 922.58 m (3,026.84 ft) long, begins at the north-south segment of Old McCullers Road and ends at Fanny Brown Road (see Figure 4.3-1b). The segment crosses a double line of railroad tracks about 150 m (490 ft) east of Old McCullers Road. The most extensive soil series present in Segment M is Appling. Areas of Cecil, Norfolk, and Herndon soils and lesser amounts of other soils are also present. The most extensive soil unit in the segment is Norfolk loamy sand, 2 to 6 percent slopes, moderately eroded; although Appling sandy loam, 6 to 10 percent slopes, moderately eroded and Herndon silt loam, 2 to 6 percent slopes, moderately eroded both cover nearly as much area. Appling, Cecil, Norfolk, and Herndon soils are all classified as well-drained. Two artificial ponds are located within Segment M and a third overlaps the segment, and together they encompass a total area of 1.46 ha (3.60 acres). At the time of the survey, the ground cover in Segment M consisted of woods, open areas, and disturbed areas. The heaviest area of disturbance was located adjacent to the eastern edge of the railroad tracks. Eroded and poorly drained soils were extensive in the segment, with moderately eroded soils covering over half of the segment area. Shovel testing was conducted in the woods at the northern edge of the segment and in open areas near the eastern end of the segment, where the terrain slopes down towards Fanny Brown Road. Shovel tests were excavated at 30-m (98-ft) intervals. Areas of eroded and poorly drained soils were visually inspected at 30-m (98-ft) intervals. Survey resulted in the identification of one archaeological site in Segment M (see Figure 4.3-2b). The site is located at the northern edge of the segment and extends north past the survey area boundary. Just south of this site was a cow pasture that had an aggressive bull. As the owner of the property could not be contacted to move the animal, this small area (1.9 acres) was not surveyed (see Figure 4.3-1b). Likewise, radials south of the site could not be excavated.

SITE NUMBER: 31WA1988

SITE TYPE: Native American lithic scatter: unattributed *SOIL TYPE:* Wagram loamy sand, 0 to 6 percent slopes *SITE SIZE:* 52 x 15 m (172 x 49 ft)

SELECTED ARTIFACTS: metavolcanic bifacial thinning flake, metavolcanic interior flakes COMMENTS: This Native American lithic scatter was encountered during shovel testing in a secondary mixed forest on a gentle side slope of a stream terrace (Figures 4.3-69 and 70). The artifacts recovered from the site (n=5) derive from Zone 2 of two positive shovel tests. These materials include a bifacial thinning flake and four metavolcanic interior flakes. The presence of material in Zone 2 at the site is likely the results of bioturbation. The typical soil profile at the site contains three zones: Zone 1, a yellowish brown (10YR 5/4) sandy loam A-horizon approximately 20 cm in thickness; Zone 2, a very pale brown (10YR 7/4) loamy sand E-horizon approximately 25 cm in thickness; and Zone 3, a yellowish red (5YR 4/6) sandy clay subsoil. Radial shovel tests were excavated in three directions; however, they could not be performed in to the south, as there was a cow pasture occupied by a large, rather aggressive bull.

RECOMMENDATIONS: The artifacts lack sufficient context for further interpretation and the location of the site is unlikely to yield additional information pertaining to Native American settlement of the Piedmont of North Carolina. The site does not appear eligible for the NRHP under Criteria A. B, C, or D.

Table 4.3-31:Segment N Survey Summary.

Segment N (STIP R-2828)	
Length	1,890.00 m (6,200.80 ft)
Area	73.32 ha (181.91 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	12.31 ha (30.24 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	.77 ha (1.90 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	.85 ha (2.10 acres)
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	16.07 ha (39.71 acres)
Total Area Shovel Tested with Judgmental Test Placement	12.57 ha (31.07 acres)
Total Area Shovel Tested at Expanded Interval	1.49 ha (3.68 acres)
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	2.20 ha (5.44 acres)
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	1.23 ha (3.05 acres)
Total Area Disturbed / Sloped / Low and Wet	26.19 ha (64.72 acres)
Total # of Shovel Tests	212
Total # Sites Documented	5
Total # Isolated Finds Documented	1

Segment N is approximately 1,890.00 m (6,200.80 ft) long and extends from Fanny Brown Road in the west to Old Stage Road in the east (see Figure 4.3-1b). It is among the longer segments in the project, as well as one of the largest. The APE in the segment extends a total of approximately 1,414 m (4,638 ft) along Old Stage Road. Most soils occurring in Segment N are of the Appling, Norfolk, and Wagram series. The most extensive soil unit in the segment is Norfolk loamy sand, 0 to 2 percent slopes. Appling and Norfolk soils are classified as welldrained and Wagram soils are classified as somewhat excessively drained. Udorthents, which represent areas altered by excavation or covered by earthy fill, are present in the segment, encompassing about 0.72 ha (1.77 acres). At the eastern and western ends of the segment, the terrain is relatively level, but two drainages cut through the middle of the segment and the ground slopes down to meet them. At the time of the survey, the ground cover in Segment N consisted of woods and a cultivated field in the west, woods, and wetland areas in the center, and extensive cultivated fields in the east. The western field had last been planted in corn and had about 75 percent ground surface visibility, while those in the east had last been planted in sweet potatoes and had over 90 percent ground surface visibility. Ground surface visibility elsewhere in the segment was zero. A pipeline corridor cuts across all but the far western end of the segment. Some areas at the western end are disturbed due to recent residential development and by an oval-shaped track, likely for ATV use. Due to relatively low percentages of the segment area classified as eroded, wet, or poorly drained, survey of Segment N required extensive shovel testing in the woods and also in fields that did not contain favorable surface visibility. Likewise, fields containing favorable surface visibility were pedestrian survey. In fact, the segment had approximately 50 ha (123 acres) that was not classified as eroded, slope, wet, or poorly drained, the largest amount of any segment in the project. Shovel tests were excavated at 30-m (98-ft)



Figure 4.3-69: Map of Site 31WA1988. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-70: View of Site 31WA1988, Looking Southeast.

intervals and pedestrian survey transects were spaced at 10-m (33-ft) intervals. Areas directly around houses were avoided because of the likelihood for buried utilities and disturbance. Portions of the cultivated fields, where artifacts were identified, were re-examined at 5-m intervals. Areas of eroded, wet, and poorly drained soils were visually inspected at 30-m (98-ft) intervals. Survey resulted in the identification of six archaeological resources in Segment N (see Figure 4.3-2b). The most extensive area of archaeological resources was encountered in fields to the west of Old Stage Road, although smaller sites were also identified throughout the segment in fields, a wooded area near a drainage, and in the northern extension along Old Stage Road. Site 31WA1991&1991** is the most extensive site encountered in the segment, and encompasses surface lithic and historic scatters across multiple agricultural fields. Test units were excavated at this site following the initial survey. A cemetery is marked on topographic maps within Segment N at the south side of Rolling Farm Drive, just west of Old Stage Road. This location is now the site of a house and no evidence of a cemetery was observed at this location. A local resident informed Commonwealth archaeologists of a cemetery north of the segment that consists of graves relocated from elsewhere. This cemetery was located by the Commonwealth survey crew 79 m (259 ft) north of the APE boundary, in the woods near the middle of Segment N. The cemetery contained five gravestones for five individuals of the Rhodes and Ferrell families. All stones were lying on the ground face-up. Dates of death ranged between 1898 and 1915. This may represent the graves from the cemetery on the corner of Rolling Farm Drive and Old Stage Road, having been relocated here to make way for houses to be built. Two horse pastures (3.05 acres), located within the northern extension along the intersection with Old Stage Road (see Figure 4.3-1b), were the only areas of Segment N that were not surveyed as access was denied.

STATE SITE NUMBER: 31WA1989

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 200 x 45 m (657 x 147 ft)

SELECTED ARTIFACTS: quartz middle stage biface, quartz interior flakes, quartzite interior flake

COMMENTS: This Native American lithic surface scatter was recorded in a recently plowed corn field with moderate but still favorable surface visibility. The site is situated on an upland flat in the western portion of Segment N, just to the northeast of where a utility corridor begins (Figures 4.3-71 and 4.3-72). The site assemblage (n=28) includes a quartz middle stage biface, 26 quartz interior flakes, and a quartzite interior flake. Two judgmental shovel tests were excavated at the site, but both were negative. These shovel tests revealed a three-zone soil profile at the site: Zone 1, a brown (10YR 4/3) sandy loam approximately 30 cm in thickness; Zone 2, a brownish yellow (10YR 6/6) sandy clay loam E-horizon approximately 30 cm in thickness; and Zone 3, a yellowish brown (10YR 5/8) sandy clay loam subsoil.

RECOMMENDATIONS: Given the low artifact density, lack of diagnostic artifacts, and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Piedmont region of North Carolina. The site is recommended not eligible for the NRHP under Criteria A, B, C, or D.



Figure 4.3-71: Map of Site 31WA1989. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-72: View of Site 31WA1989, Looking West.

SITE NUMBER: 31WA1990

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Appling sandy loam, 6 to 10 percent slopes

SITE SIZE: 17 x 14 m (56 x 46 ft)

SELECTED ARTIFACTS: quartz bifacial thinning flake

COMMENTS: A single bifacial thinning flake was recovered while shovel testing on a gentle side slope descending to the east towards a nearby drainage at the center of Segment N. The artifact derived from Zone 1 of a positive shovel test. Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material.

RECOMMENDATIONS: This artifact lacks sufficient context for further interpretation and is unlikely to provide additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA1991&1991**

SITE TYPE: Native American lithic scatter: Early Archaic to Late Archaic; Historic scatter: mid-nineteenth to mid-twentieth centuries

SOIL TYPE: Norfolk loamy sand, 2 to 6 percent slopes

SITE SIZE: 372 x 257 (1221 x 842 ft)

SELECTED ARTIFACTS: quartz porphyritic rhyolite Big Sandy point, metavolcanic Morrow Mountain II Stemmed points, plagioclase-quartz porphyritic rhyolite Morrow Mountain II Stemmed point, Slate-like material Guilford Lanceolate, plagioclase-quartz porphyritic rhyolite Small Savannah River Stemmed point, quartz Small Savannah River Stemmed point, plagioclase porphyritic rhyolite indeterminate point (similar to Piscataway Stemmed), metavolcanic indeterminate points, quartz indeterminate points, metavolcanic point tip, quartz point tip, metavolcanic late stage bifaces, plagioclase-quartz porphyritic rhyolite late stage biface, quartz mid and late stage bifaces, metavolcanic indeterminate biface base, plagioclase porphyritic rhyolite retouched flake, plagioclase-quartz porphyritic rhyolite retouched flake, quartz retouched flakes, quartzite decortication flake, aphyric rhyolite bifacial thinning flakes, metavolcanic bifacial thinning flakes, plagioclase porphyritic rhyolite bifacial thinning flakes, plagioclase-quartz porphyritic rhyolite bifacial thinning flakes, quartz bifacial thinning flakes, quartz porphyritic rhyolite bifacial thinning flake, quartzite bifacial thinning flake, aphyric rhyolite interior flakes, metavolcanic interior flakes, plagioclase porphyritic rhyolite interior flakes, plagioclase-quartz porphyritic rhyolite interior flakes, quartz interior flakes, quartz porphyritic rhyolite interior flakes, quartzite interior flakes, aphyric rhyolite flake fragments, metavolcanics flake fragments, quartz porphyritic rhyolite flake fragment, quartz shatter, quartzite shatter, metavolcanics fragments, quartz fragment, quartzite unmodified pebble, quartzite tabular rock, edged pearlware, undecorated pearlware, white granite (ironstone), K. T. & K. semi-vitreous porcelain, transfer-printed porcelain, undecorated porcelain, decal decorated/ "decalcomania" porcelain, porcelain doll appendage, porcelain door knobs, edged whiteware, hand-painted whiteware, sponged whiteware, transfer-printer whiteware, undecorated whiteware, decal decorated "decalcomania" whiteware, fiestaware, Albany Bristol stoneware (North American), McCoy stoneware (North American), buff bodied stoneware (North American), McCoy earthernware, red coarse earthenware, solarized/manganese dioxide decolorized table glass, Fire-King Jade-ite table glass, colorless table glass, amber container glass, amber glass medicinal bottle, aqua container glass, "Ball" blue container glass, blue container glass, cobalt blue container glass, colorless container glass, green container glass, green aqua container glass,



Figure 4.3-73: Map of Site 31WA1991&1991**, 31WA1992, and 31WA1993**. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-74: View of Site 31WA1991&1991**, Looking Northwest.



Figure 4.3-75: View of Site 31WA1991&1991**, Looking Southeast.



Figure 4.3-76: Historic Artifacts from 31WA1991&1991**: a) Molded Whiteware (Acc.# 2017.0065.01); b) Sponged Whiteware (Acc.# 2017.0065.01); c) Copper or Brass Button (Acc.# 2017.0065.01); d) Edged Pearlware (Acc.# 2017.0065.01); e) Clear Container Glass Finish (Acc.# 2017.0065.01); f) Cobalt Blue Container Glass Finish (Acc.# 2017.0065.01); g) Heat-Altered Whiteware (Acc.# 2017.0065.01).



Figure 4.3-77: Historic Artifacts from 31WA1991&1991**: a-c) Hand-Painted Whiteware (Acc.# 2017.0065.01); d) Fire-King Jade-ite Table Glass (Acc.# 2017.0065.01).

milk glass container glass, solarized/manganese dioxide decolorized container glass, milk glass canning jar lid insert, glass marble, indeterminate ferrous nail, cupreous button, faunal tooth **COMMENTS:** This large multicomponent site was initially identified during the visual assessment of five adjacent recently harvested sweet potato fields that contained excellent surface visibility during the project survey. The site is situated on an upland that wraps around the head of a drainage, located to the west of Old Stage Road (Figure 4.3-73, 4.3-74, and 4.3-75). A utility corridor skirts through a portion of the site. Originally, the artifacts located in the respective fields were each considered discrete sites, but later it became apparent that these materials were part of one large site, represented by a series of recurrent and overlapping occupations rimming the upper part of a drainage head. The site assemblage (n=668) was recovered from the ground surface, shovel tests, and test units. The historic component (Figure 4.3-76) recovered from the surface of the site includes two pearlware fragments, two white granite (ironstone) fragments, six decal decorated/ "decalcomania" whiteware fragments, two edged whiteware fragments, six hand-painted whiteware fragments, two sponged whiteware fragments, three transfer-printed whiteware fragments, eight fiestaware fragments, 19 undecorated whiteware fragments, four fragments of decal decorated porcelain, two transferprinter porcelain fragments, eight white porcelain fragments, 15 Albany Bristol North American stoneware fragments, two blue-glazed earthenware fragments, a brown-glazed earthenware fragment, a coarse earthenware red-bodied fragment, six opaque white "milk glass" fragments, two opaque white "milk glass" canning jar lid insert fragments, four opaque white "milk glass" cosmetic jar fragment, 12 pieces of solarized/manganese dioxide decolorized container glass, an amber stippled base bottle (likely medicine vial), two pieces of aqua glass, a piece of blue container glass, five pieces of "Ball" blue container glass, five pieces of cobalt blue container glass, a piece of embossed amber container glass, 17 pieces of colorless container glass, six pieces of Fire-King Jade-ite table glass, six pieces of colorless table glass, a metal button (copper or brass), a porcelain doll appendage, four glass marbles (one fragmented and three complete), three porcelain door knobs (two fragmented and one complete), an antler tine (possibly modern) and four pieces of a glass from a Coca-Cola bottle.

Pearlware dates from 1780 to 1840 (FMNH 2017, Noel Hume 1969). Opaque white "milk glass" ranges in date from primarily 1870s to the mid twentieth century (Lindsey 2017). Albany Bristol stoneware dates from 1890s to twentieth century (Stelle 2001). Solarized/ manganese dioxide decolorized container glass dates from the 1820s to the 1930s, with one example that had a straight brandy or wine finish which was produced from 1890s to 1920s (Lindsey 2017). Opaque white "milk glass" canning lids were in production post-1869 (Miller et al. 2000). "Ball" blue canning jars were produced in the early to middle twentieth century (Lindsey 2017). Colorless container glass was produced from the 1920s to the present (Lindsey 2017). Fire-King Jade-ite table glass was produced from 1940s to 1976 (Collectors Weekly 2016). K.T. & K. semi-vitreous porcelain was produced from 1888 to 1931 (Vodrey 2013). Decal decorated/ "decalcomania" whiteware was in production from 1890s to 1950s (JPPM 2017). White granite (ironstone) date ranges from the 1830s to the early twentieth century (JPPM 2017). Fiestaware decorated whiteware was produced from 1937 to the present (Fiesta Direct Site 2017) except for sponged whiteware which was produced from the mid-nineteenth century to the early 1900s (Mansberger 1986; Miller et al. 2000). Machine-made glass marbles were produced from 1901 to present (Miller et al. 2000). The Native American component recovered from the surface of the site includes a quartz porphyritic rhyolite Big Sandy Side Notched point (Early Archaic), a



Figure 4.3-78: Points from 31WA1991&1991**: a) Guilford Lanceolate (Acc.# 2017.0065.01); b) Big Sandy Side Notched (Acc.# 2017.0065.01).



Figure 4.3-79: Points from 31WA1991&1991**: a) Indeterminate Eared (Acc.# 2017.0065.01); b-c) Indeterminate Stemmed (Acc.# 2017.0065.01).


Figure 4.3-80: Points from 31WA1991&1991**: a) Small Savannah River Stemmed (Acc.# 2017.0065.01); b) Indeterminate Stemmed (Acc.# 2017.0065.01); and c) Small Savannah River Stemmed (Acc.# 2017.0065.01).



Figure 4.3-81: Points from 31WA1991&1991**: a) Indeterminate with Pointed Stem (Acc.# 2017.0065.02); b-d) Morrow Mountain II Stemmed (Acc.# 2017.0065.01).



Figure 4.3-82: Middle and Late Stage Bifaces from 31WA1991&1991** (Acc.# 2017.0065.01).

plagioclase-quartz porphyritic rhyolite Small Savannah River point (Late Archaic/Early Woodland), two metavolcanic Morrow Mountain II Stemmed points (Middle Archaic), a plagioclase-quartz porphyritic rhyolite Morrow Mountain Stemmed point, a Guilford Lanceolate point (slate-like material), a contracting pointed stem (similar to Piscataway Stemmed) a quartz indeterminate eared point (possible eared triangle), a metavolcanic indeterminate stemmed point, three quartz indeterminate stemmed points, four indeterminate point tips (two metavolcanic and two quartz), a plagioclase-quartz porphyritic rhyolite late stage biface, five metavolcanic late stage bifaces, two quartz late stage bifaces, a quartz mid- to late-stage biface (Figures 4.3-78 to 4.3-82), a metavolcanic indeterminate biface base, five quartz biface fragments, a plagioclasequartz porphyritic rhyolite retouched flake, a plagioclase porphyritic rhyolite retouched flake, five quartz retouched flakes, a quartzite decortication flake, seven aphyric rhyolite bifacial thinning flakes, seven plagioclase porphyritic rhyolite bifacial thinning flakes, a plagioclasequartz porphyritic rhyolite bifacial thinning flake, a quartz porphyritic rhyolite bifacial thinning flake, 21 metavolcanic bifacial thinning flakes, 12 aphyric rhyolite interior flakes, eight plagioclase porphyritic rhyolite, 13 plagioclase-quartz porphyritic rhyolite, five quartz porphyritic rhyolite interior flakes, 61 metavolcanic interior flakes, 124 quartz interior flakes, two quartzite interior flakes, a quartz porphyritic rhyolite flake fragment, two metavolcanic flake fragments, seven pieces of quartz shatter, a quartzite shatter, an unmodified quartzite tabular rock, four metavolcanic flakes, and a quartz fragment.

Small Savannah River Stemmed points date from the end of the Late Archaic period (Oliver 1985:204). The Morrow Mountain II Stemmed point type dates to the Middle Archaic period (Ward and Davis 1999:58-62). The Big Sandy point type dates to the Early Archaic period (Justice 1987:61; Hranicky and Painter 1991). Guilford Lanceolate type dates to the Middle Archaic (Ward and Davis 1991:58-62). One unusual point had a contracting stem and is reminiscent of the Early to Middle Woodland Piscataway Stemmed type as described by Hranicky and Painter (1991:59). There was also one faunal item that appears to be an antler time but it seems likely that this item is modern.

IN DEPTH EVALUATION: Due to the site size and the presence of diagnostic artifacts located on the surface, 12 1-x-1-m test units were excavated to ascertain the integrity of subsurface deposits. Test Units 1, 2, and 3 were excavated in the northern most field. Test Unit 1 was excavated at the highest point of the site in the location of a large surface cluster of lithics. Test Unit 2 was excavated in the western extremity of this same field, and Test Unit 3 was excavated to the south of Test Unit 1 on the same landform. These three units reflected the artifact density of the surface and yielded the highest concentration of subsurface materials recorded at the site.

Test Units 1 and 3 did not reach the same depth as Test Unit 2. The latter two tests only yielded artifacts in upper strata before sterile soil (Figures 4.3-83 and 4.3-84). The soil profile of Test Unit 2 contained four zones: Zone 1, a brown (10YR 5/3) sandy loam plow zone 20 cm in thickness; Zone 2, a light yellowish brown (10YR 6/4) sandy loam transition 15 cm in thickness; Zone 3, a very pale brown (10YR 7/4) sandy E-Horizon 20 cm in thickness; and Zone 4, a yellowish brown (10YR 5/8) sandy clay loam subsoil. There was evidence of plowing in both Zones 1 and 2 of the unit, as well as limited bioturbation. Artifacts predominately derived from Zone 1 of the tests. Artifact quantities decreased with depth (Tables 4.3-32, 4.3-33, and 4.3-34).

Object	Zone/Level	Count	Percentage in Test Unit
Aphyric Rhyolite Bifacial Thinning Flake	1/1	1	1.54%
Metavolcanic Bifacial Thinning Flake	1/1	4	6.15%
Plagioclase Porphyritic Rhyolite Bifacial Thinning Flake	1/1	1	1.54%
Quartz Bifacial Thinning Flake	1/1	1	1.54%
Aphyric Rhyolite Interior Flake	1/1	6	9.23%
Metavolcanic Interior Flake	1/1	20	30.77%
Plagioclase Porphyritic Rhyolite Interior Flake	1/1	1	1.54%
Quartz Interior Flake	1/1	6	9.23%
Quartz Porphyritic Rhyolite Interior Flake	1/1	1	1.54%
Metavolcanic Flake Fragment	1/1	5	7.69%
Metavolcanic Bifacial Thinning Flake	2/1	1	1.54%
Plagioclase-Quartz Porphyritic Rhyolite Bifacial Thinning Flake	2/1	1	1.54%
Metavolcanic Interior Flake	2/1	6	9.23%
Quartz Interior Flake	2/1	2	3.08%
Metavolcanic Bifacial Thinning Flake	3/1	2	3.08%
Metavolcanic Interior Flake	3/1	5	7.69%
Metavolcanic Flake Fragment	3/1	1	1.54%
Metavolcanic Interior Flake	S wall fall	1	1.54%
Total		65	100.00%

Table 4.3-32: Summary of Artifacts Recovered from Test Unit 1 at 31WA1991&1991**, by Zone and Level.

Table 4.3-33: Summary of Artifacts Recovered from Test Unit 2 at 31WA1991&1991**, by Zone and Level.

Object	Zone/Level	Count	Percentage in Test Unit
Metavolcanic Bifacial Thinning Flake	1/1	1	2.86%
Metavolcanic Interior Flake	1/1	7	20.00%
Quartz Interior Flake	1/1	2	5.71%
Quartzite Unmodified Pebble	1/1	1	2.86%
Plagioclase-Quartz Porphyritic Rhyolite Bifacial Thinning Flake	2/1	2	5.71%
Metavolcanic Interior Flake	2/1	4	11.43%
Plagioclase Porphyritic Rhyolite Interior Flake	2/1	3	8.57%
Quartz Interior Flake	2/1	1	2.86%
Quartz Porphyritic Rhyolite Interior Flake	2/1	2	5.71%
Metavolcanic Flake Fragment	2/1	1	2.86%
Metavolcanic Interior Flake	2/1 "plow scars"	1	2.86%
Plagioclase-Quartz Porphyritic Rhyolite Interior Flake	2/1 "plow scars"	2	5.71%
Quartzite Interior Flake	2/1 "plow scars"	1	2.86%
Metavolcanic Interior Flake	3/1	1	2.86%
Metavolcanic Interior Flake	3/2	2	5.71%



Figure 4.3-83: Site 31WA1991&1991**, Test Unit 2, Sketch of East Profile.



Figure 4.3-84: 31WA1991&1991**, Test Unit 2, Photograph of East Profile.

Quartz Interior Flakes	3/2	3	8.57%
Quartzite Bifacial Flake	4/1	1	2.86%
Total		35	100.00%

Table 4.3-34: Summary of Artifacts Recovered from Test Unit 3 at 31WA1991&1991**, by Zone and Level.

Object	Zone/Level	Count	Percentage
			in Test Unit
Metavolcanic Interior Flake	1/1	2	40.00%
Quartz Interior Flake	1/1	1	20.00%
Aphyric Rhyolite Flake Fragment	1/1	1	20.00%
Metavolcanic Flake Fragment	1/1	1	20.00%
Total		5	100.00%

Test Units 4 and 5 were excavated in the large field to the east: Test Unit 4 in the northwest corner and Test Unit 5 in the central southern area. These excavation locations were selected for coverage, as there were no specific concentrations located in this field. The two test units yielded only three artifacts total, all derived from the plow zone. These materials include a metavolcanic bifacial thinning flake and an aphyric rhyolite interior flake from Test Unit 4, and a fragment of blue open-sponged whiteware from Test Unit 5. Blue open-sponged whiteware dates to 1860-1935 (JPPM 2017). Additionally, Test Unit 4 also yielded plastic and modern glass from plow zone of the test. The soil profile in this portion of the site contains three zones: Zone 1, a brown (10YR 5/3) sandy loam plow zone approximately 20 cm in thickness; Zone 2, a yellowish brown (10YR 5/4) sandy clay subsoil (Figures 4.3-85 and 4.3-86).

Test Unit 6 was excavated on the northern end of the central field, just southeast of the field with Test Units 1, 2, and 3. Test Unit 6 contained only three artifacts in the plow zone. These items include a metavolcanic bifacial thinning flake, aphyric rhyolite interior flake, and a piece of embossed aqua container glass (Table 4.3-35). The soil profile in the section of the site contains three zones: Zone 1, a brown (10YR 5/3) sandy loam plow zone 20 cm in thickness; Zone 2, a light yellowish brown (10YR 6/4) sandy loam transition 10 cm in thickness; Zone 3, a yellowish brown (10YR 6/8) sandy clay loam subsoil (Figures 4.3-87 and 4.3-88).

Test Unit 7 was excavated on the southern end of the central field in the site. Test Unit 7 contained artifacts in all three soil zones of the unit, with the density of artifacts decreasing as depth increased (Table 4.3-36). The historic assemblage was almost all domestic items (ceramic and glass) except for one nail. Test Unit 7 contained a three-zoned soil profile, similar to that of Test Unit 6. Both of these units contained evidence of plowing, but Test Unit 7 had evidence of a 10 cm layer of fill (7.5YR 4/4 brown sandy loam with gravel) which likely resulted from the excavation of the pond just to the west (Figures 4.3-89 and 4.3-90). Test Unit 7 yielded seven Native American lithic artifacts and 13 historic artifacts, which are summarized in table 4.3-36. Notably, these artifacts include colorless (one with a crown finish) glass, light amethyst (solarized/ manganese dioxide decolorized), opaque white "milk glass", and green container glass dates



Figure 4.3-85: Site 31WA1991&1991**, Test Unit 4, Sketch of North Profile.



Figure 4.3-86: 31WA1991&1991**, Test Unit 4, Photograph of North Profile.



Figure 4.3-87: Site 31WA1991&1991**, Test Unit 6, Sketch of East Profile.



Figure 4.3-88: 31WA1991&1991**, Test Unit 6, Photograph of East Profile.



Figure 4.3-89: Site 31WA1991&1991**, Test Unit 7, Sketch of North Profile.



Figure 4.3-90: 31WA1991&1991**, Test Unit 7, Photograph of North Profile.

from 1910 to the present, solarized/manganese dioxide decolorized container glass dates from the 1820s to the 1930s, and opaque white "milk glass" dates primarily from 1870s to mid-twentieth century (JPPM 2017) (see Tables 4.3-36).

Table 4.3-35: Summary of Artifacts Recovered from Test Unit 6 at 31WA1991&1991**, by Zone and Level.

Object	Zone/Level	Count	Percentage in Test Unit
Metavolcanic Bifacial Thinning Flake	1/1	1	33.33%
Aphyric Rhyolite Interior Flake	1/1	1	33.33%
Aqua Container Glass	1/1	1	33.33%
Total		3	100.00%

Table 4.3-36: Summary of Artifacts Recovered from Test Unit 7 at 31WA1991&1991**, by Zone and Level.

Object	Zone/Level	Count	Percentage in Test Unit
Aqua Container Glass	1/1	1	5.88%
Colorless Container Glass	1/1	6	35.29%
Light Amethyst Container Glass	1/1	1	5.88%
Opaque White "Milk Glass" Container Glass	1/1	1	5.88%
Iron Nail	1/1	1	5.88%
Quartz Interior Flake	2/1	3	17.65%
Quartz Shatter	2/1	1	5.88%
Aqua Container Glass	2/1	1	5.88%
Green Container Glass	2/1	1	5.88%
Quartz Interior Flake	3/1	1	5.88%
Total		17	100.00%

Test Units 8, 9, and 10 were excavated in the southern most field, south of a farm road. The initial survey of the site area located a medium-density scatter of lithic artifacts (n=49) with several outliers in the eastern portion of the field (three historic artifacts were also recovered). Test Unit 8 was excavated in a northern cluster of lithic flakes and Test Units 9 and 10 were excavated in the west and east halves of the main scatter along the southern edge of the APE. This site could very well extend south outside of the APE. Just a few items were recovered from these three units. Test Unit 8 contained only a plagioclase porphyritic rhyolite bifacial thinning flake that derived from an old plow scar located in Zone 2 of the unit. Test Unit 9 contained two plagioclase porphyritic rhyolite interior flakes, a quartz porphyritic rhyolite interior flake, three metavolcanic interior flakes, and a quartz interior flake-all of which derived from the plow zone of the test (Table 4.3-37). Test Unit 10 contained just a piece of colorless container glass, which was located in the plow zone of the unit. The typical soil profile on this portion of the site contains three soil zones: Zone 1, a brown (10YR 5/3) sandy loam plow zone approximately 25 cm in thickness; Zone 2, a brownish yellow (10YR 6/6) sandy loam transition approximately 10 cm in thickness; and Zone 3, a brownish yellow (10YR 6/8) sandy clay subsoil (Figures 4.3-91 and 4.3-92). In this same field five transects of shovel test (n=35) spaced 15-m apart were placed in the gap between the surface clusters to the west and the outliers on the east. Rather



Figure 4.3-91: Site 31WA1991&1991**, Test Unit 9, Sketch of East Profile.



Figure 4.3-92: 31WA1991&1991**, Test Unit 9, Photograph of East Profile.



Figure 4.3-93: Site 31WA1991&1991**, Test Unit 11, Sketch of West Profile.

than excavate more units these shovel tests were employed to detect any subsurface artifacts or features without open more test units. None of these shovel tests yielded cultural materials.

Test Unit 11 was located at the center of a sparse surface scatter located in the field just south of the pond, to the north of the farm road. The artifacts recovered from the unit were located in the plow zone. These items include 23 pieces of colorless container glass, a whiteware fragment, an aphyric rhyolite bifacial thinning flake, and an aphyric rhyolite interior flake (Table 4.3-38). Undecorated whiteware ranges in date from 1830 to the present (Miller et al. 2000) and solarized/manganese dioxide decolorized container glass dates from the 1820s to the 1930s (Lindsey 2017).

The soil profile on this portion of the site contains three zones: Zone 1, a dark grayish brown (10YR 4/2) sandy loam plow zone 20 cm; Zone 2, a very pale brown (10YR 7/4) sandy loam transition 10 cm in thickness; Zone 3, a reddish yellow (7.5YR 6/8) sandy clay loam subsoil (Figures 4.3-93 and 4.3-94). Within Zone 2 of the test, at approximately 48 cmbd, a circular feature appeared near the center of this unit about 14 cm in diameter. After bisecting the feature

Object	Zone/Level	Count	Percentage in Test Unit
Metavolcanic Interior Flake	surface/NE quarter	1	8.33%
Aphyric Rhyolite Interior Flakes	1/1	4	33.33%
Metavolcanic Interior Flakes	1/1	2	16.67%
Plagioclase Porphyritic Rhyolite Interior Flakes	1/1	2	16.67%
Quartz Interior Flake	1/1	1	8.33%
Quartz Porphyritic Rhyolite Interior Flake	1/1	1	8.33%
Quartz Interior Flake	2/1	1	8.33%
Total		12	100.00%

Table 4.3-37: Summary of Artifacts Recovered from Test Unit 9 at 31WA1991&1991**, by Zone and Level.

Table 4.3-38:	Summary of Artifacts	Recovered from	Test Unit 11 a	at 31WA1991&	&1991**, by
Zone and Lev	el.				

Object	Zone/Level	Count	Percentage in Test
			Unit
Aphyric Rhyolite Bifacial Thinning Flake	1/1	1	4.00%
Aphyric Rhyolite Interior Flake	1/1	1	4.00%
Whiteware	1/1	1	4.00%
Aqua Container Glass	1/1	1	4.00%
Colorless Container Glass	1/1	19	76.00%
Light Amethyst Container Glass	1/1	2	8.00%
Total		25	100.00%

(Feature 1), the profile appeared to be an indeterminate post mold filled with yellowish brown loamy (10YR 5/4) sand; the edges of the profile are too sharp to be considered a rodent hole and



Figure 4.3-94: Site 31WA1991&1991**, Test Unit 11 Feature, Sketch of North Profile.



Figure 4.3-95: Site 31WA1991&1991**, Test Unit 11 Feature, Photograph of North Profile.

the feature may be fairly recent. Feature 1 extended to a depth of 102 cmbd, and no cultural material derived from the feature fill (Figure 4.3-94 and 4.3-95). This was a well-defined solitary feature, and no other post molds or stains were found in the unit, as would be expected if a structural wall of fortification were present. The area is slightly sloping toward the drainage head, and a fence may have been located in the area at one time.

The historic artifacts (n=23) only came from Zone 1 and included one piece of undecorated whiteware and colorless, aqua, and light amethyst (solarized/manganese dioxide decolorized) container glass. There were two lithic artifacts which were one aphyric rhyolite bifacial thinning flake and one interior flake (see Table 4.3-38)

Test Unit 12 was excavated in the northeast corner of the same field as Test Units 4 and 5. Test Unit 12 was limited to the removal of the plow zone, which yielded modern trash (colorless glass and a spark plug), as the unit became wet and started to seep water. Table 4.3-49 provides a summary of all artifacts recovered from this 31WA1991&1991**.

Object	Count
Quartz Porphyritic Rhyolite Big Sandy Point	1
Slate-Like Material Guilford Lanceolate	1
Metavolcanic Morrow Mountain II Stemmed Point	2
Plagioclase-Quartz Porphyritic Rhyolite Mountain Morrow II Stemmed Point	1
Plagioclase-Quartz Porphyritic Rhyolite Small Savannah River Stemmed Point	1
Quartz Small Savannah River Stemmed Point	1
Metavolcanic Indeterminate Stemmed Point	1
Plagioclase Porphyritic Rhyolite Stemmed Point (Similar To Piscataway Stemmed)	1
Quartz Indeterminate Stemmed Point (Resharpened)	2
Quartz Indeterminate Eared Point (Resharpened)	1
Metavolcanic Point Tip	2
Quartz Point Tip	2
Metavolcanic Late Stage Biface	5
Plagioclase-Quartz Porphyritic Rhyolite Late Stage Biface	1
Quartz Late Stage Biface	2
Quartz Mid-To-Late Stage Biface	1
Metavolcanic Indeterminate Biface Base	1
Quartz Biface Fragment	5
Plagioclase Porphyritic Rhyolite Retouched Flake	1
Plagioclase-Quartz Porphyritic Rhyolite Retouched Flake	1
Quartz Retouched Flake	5
Quartzite Decortication Flake	1
Aphyric Rhyolite Bifacial Thinning Flake	9
Metavolcanic Bifacial Thinning Flake	32
Plagioclase Porphyritic Rhyolite Bifacial Thinning Flake	9
Plagioclase-Quartz Porphyritic Rhyolite Bifacial Thinning Flake	4

Table 4.3-39: Summary of Artifacts Recovered from 31WA1991&1991**.

Quartz Bifacial Thinning Flake	9
Quartz Porphyritic Rhyolite Bifacial Thinning Flake	1
Quartzite Bifacial Thinning Flake	1
Aphyric Rhyolite Interior Flake	25
Metavolcanic Interior Flake	114
Plagioclase Porphyritic Rhyolite Interior Flake	15
Plagioclase-Quartz Porphyritic Rhyolite Interior Flake	15
Quartz Interior Flake	147
Quartz Porphyritic Rhyolite Interior Flake	9
Quartzite Interior Flake	3
Aphyric Rhyolite Flake Fragment	2
Metavolcanic Flake Fragment	10
Quartz Porphyritic Rhyolite Flake Fragment	1
Quartz Shatter	8
Metavolcanic Fragment	4
Quartz Fragment	1
Quartzite Shatter	1
Quartzite Unmodified Pebble	1
Quartzite Unmodified Tabular Rock	1
Pearlware	2
White Granite (Ironstone)	2
Porcelain	14
Porcelain Doll Appendage	1
Porcelain Door Knob	3
Whiteware	48
Stoneware (North American)	15
Earthenware	3
Opaque White 'Milk Glass" Canning Jar Lid Insert	3
Coarse Earthernware	1
Colorless Table Glass	6
Light Amethyst Table Glass	2
Light Pink Table Glass	1
Opaque Jade Green "Milk Glass"	6
Amber Bottle/Vial	1
Amber Container Glass	1
Amethyst Container Glass	10
Aqua Container Glass	7
"Ball" Blue Container Glass	6
Blue Container Glass	1
Cobalt Blue Container Glass	5
Colorless Container Glass	43
Green Container Glass	1
Green Aqua Container Glass	4

Light Amethyst Container Glass	3
Opaque White 'Milk Glass" Container Glass	11
Glass Marble	3
Tooth (Faunal)	1
Iron Nail	1
Copper Or Brass Button	1
Plastic Indeterminate	1
Total	668

Over ninety percent of the artifacts recovered from the site came derived from the surface (the majority) or from within the plow zone. Only a quarter of the site assemblage derived from the 12 test units excavated at the site. Just five of these units yielded artifacts from beneath the plow zone, and only Test Units 2 and 7 contained artifacts deeper than Zone 2. This stratigraphic pattern indicates that the site has been heavily impacted by plowing, accounting for the dispersion of artifacts; no real concentrations of artifacts were recorded. The diagnostic point types recovered from the site were encountered on the surface. A third of the site assemblage is historic artifacts, primarily deriving from Fields 2, 3, and 5 (refer to Figure 4.3-73). The 1964 USGS Lake Wheeler 7.5-minute topographic map shows a structure to the northwest of the site that is not marked on current maps. The demolition of the structure could explain the higher concentration of historic artifacts in this field. Most of the precontact Native American artifacts were encountered in Fields 1 and 4, but the other fields also yielded lithic artifacts. There is great diversity of artifacts in both type and material across the entire site which provides further evidence for the extent of the damage inflicted on this large site by years of intensive plowing. **RECOMMENDATIONS:** While this site is large and situated on an ideal landform next to a drainage head, and has a variety of both historic and Native American diagnostic artifacts as well as an indeterminate post mold feature, the integrity of deposits at the site have been heavily impacted by agricultural activity. The site contains here little evidence for intact sub-plow-zone deposits or features, other than the isolated post mold. The site area within the APE appears to have little potential to provide additional information on precontact and historic inhabitants of the Piedmont region of North Carolina and does not appear to contribute to any eligibility for the NRHP under Criteria A, B, C, and D.

SITE NUMBER: 31WA1992

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Norfolk loamy sand, 0 to 2 percent slopes

SITE SIZE: 54 x 21 m (177 x 67 ft)

SELECTED ARTIFACTS: metavolcanic bifacial thinning flakes, aphyric rhyolite interior flake, plagioclase porphyritic rhyolite bifacial thinning flakes, quartz interior flakes, quartz shatter

COMMENTS: This lithic surface scatter was encountered during the visual assessment of a recently plowed sweet potato field with excellent surface visibility situated on an upland flat in eastern Segment N (see Figure 4.3-73 and Figure 4.3-96). The site assemblage (n=8) includes two, plagioclase porphyritic rhyolite bifacial thinning flakes, two metavolcanic bifacial thinning flakes, two quartz interior flakes, a aphyric rhyolite interior flake, and a piece of quartz shatter. A judgmental shovel test, excavated at the site in the location of the surface finds, was negative. The test revealed a two-zone soil profile at the site with Zone 1 a yellowish brown (10YR 5/6)



Figure 4.3-96: View of Site 31WA1992, with Landform at 31WA1991&1991**, Looking West.

sandy loam plow zone 30 cm in thickness, and Zone 2, a brownish yellow (10YR 6/8) sandy clay subsoil with five to ten percent of the matrix comprised of gravel.

RECOMMENDATIONS: Given the low artifact density, lack of diagnostic artifacts, and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on precontact inhabitants of the Central Piedmont region of North Carolina and does not appear eligible for the NRHP under Criteria A, B, C, or D.

STATE SITE NUMBER: 31WA1993**

SITE TYPE: Historic domestic scatter: late-eighteenth to mid-twentieth century *SOIL TYPE:* Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 200 x 45 m (657 x 147 ft)

SELECTED ARTIFACTS: pearlware, white granite (ironstone), undecorated whiteware, refined earthenware, gray-bodied North American stoneware, amber container glass, aqua container glass, opaque white "milk glass" container glass, solarized/manganese dioxide decolorized container glass

COMMENTS: This historic surface scatter was encountered during the visual assessment of a recently plowed sweet potato field with excellent surface visibility adjacent to Old Stage Road near the eastern perimeter of Segment N (see Figure 4.3-73 and Figure 4.3-97). Two other sites (31WA1992 and 31WA1993**) are located further west on the same upland flat. The immediate site area was not shovel tested. During the initial survey, the entire field was considered one large site (it was later divided in separate sites). The surface collection found at the site (n=129) is summarized in Table 4.3-40 and is limited to historic ceramic fragments and pieces of glass that were dispersed across the site area (Figure 4.3-98). Most of these items appear to have been heat-altered, suggesting the likelihood of a burning event shared by these articles. Only three artifacts found at the site (a whiteware handle fragment, a piece of amber glass, and a piece of aqua glass fragment) were not altered by heat. The majority of the site assemblage consists of white granite (ironstone) fragments—many of which refit. Because of its proximity to 31WA1991&1991** and 31WA1992 and the extensive subsurface testing done at these other sites, shovel tests were not excavated at 31WA1993**.

White granite ceramics range in date from 1830s to the early twentieth century (Miller et al. 2000). Whiteware is present in the assemblage as well, and dates from 1830 to the present (Miller et al. 2000). A pair of pearlware fragments found at the site possesses a possible date range from 1785 to 1840 (FMNH 2017, Noel Hume 1969). A fragment of opaque white "milk glass" container glass was also recovered and ranges in date from (primarily) the1870s to the mid-twentieth century (Lindsey 2017). Solarized/ manganese dioxide decolorized glass, also in the site assemblage, ranges in date from the 1820s to 1930s (most common 1890 - 1920) (Lindsey 2017).

RECOMMENDATIONS: Site 31WA1993** is one of the few sites encountered during the project survey that has only a historic component and does not contain Native American materials. Despite the high density of diagnostic historic artifacts, the absence of subsurface deposits causes this site to lack the potential to provide additional information on historic lifeways of the Central Piedmont region of North Carolina. This site may have been a domestic trash dump that has been scattered by plowing. The site is recommended not eligible for the NRHP under Criteria A, B, C, or D.



Figure 4.3-97: View of Site 31WA1993**, Looking West.



Figure 4.3-98: Historic Artifacts from 31WA1993**: a) Heat-Altered Pearlware (Acc.# 2017.0067.01); b) Heat-Altered White Granite (Ironstone) (Acc.# 2017.0067.01); c) Heat-Altered Solarized/Manganese Dioxide Decolorized Container Glass (Acc.#2017.0067.01); d) Heat-Altered Opaque White "Milk Glass" (Acc.# 2017.0067.01).

Object	Count
Pearlware	2
White Granite (Ironstone)	97
Whiteware	9
Refined Earthenware	16
Gray Bodied Stoneware (North American)	1
Amber Container Glass	1
Amethyst Container Glass	1
Aqua Container Glass	1
Opaque White" Milk Glass" Container Glass	1
Total	129

Table 4.3-40: Summary of Artifacts Recovered from 31WA1993**.

STATE SITE NUMBER: 31WA1994&1994**

SITE TYPE: Native American lithic scatter: unattributed; Historic isolated find: unattributed *SOIL TYPE:* Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 47 x 95 m (154 x 312 ft)

SELECTED ARTIFACTS: quartz interior flakes, plagioclase porphyritic rhyolite interior flakes, plagioclase porphyritic rhyolite bifacial thinning flakes, porcelain

COMMENTS: The site was recovered during the visual assessment of an agricultural field with excellent surface visibility located within the same upland area as Sites 31WA1991&1991**, 31WA1992, 31WA1993**. This multicomponent site is situated to the north of the other, similar sites found along Old Stage Road (Figures 4.3-99 and 4.3-100). Site

31WA1994&1994** is near the northern boundary of the APE and it extends to the east across Old Stage Road. The site was judgmentally shovel tested within the boundary of the surface scatter, but only one of the tests was positive. The site assemblage (n=12) derived almost entirely from the ground surface with the exception of a single quartz flake which was recovered from Zone 1 of the positive shovel test. The surface collection encountered at the site includes four plagioclase porphyritic rhyolite bifacial thinning flakes, two plagioclase porphyritic rhyolite interior flakes, four quartz interior flakes, and a fragment of brown glazed porcelain. Shovel testing revealed a three-zone soil profile at the site: Zone 1, a brown (10YR 4/3) sandy loam plow zone approximately 30 cm in thickness; Zone 2, a yellowish brown (10YR 5/6) sandy E-horizon approximately 30 cm in thickness; Zone 3, a yellowish brown (10YR 5/8) sandy clay subsoil. This site could be part of previously recorded site, 31WA1202, which is located approximately 90 m to the north.

RECOMMENDATIONS: Given the low artifact density, lack of diagnostic artifacts, and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on precontact inhabitants and historic settlements of the Piedmont region of North Carolina and does not appear eligible for the NRHP under Criteria A, B, C, and D.



Figure 4.3-99: Map of Site 31WA1994. Base Mapping from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-100: View of Site 31WA1994, Looking Southwest.

Table 4.3-41:Segment O Survey Summary.

Segment O (STIP R-2828)	
Length	1,603.53 m (5,260.94 ft)
Area	58.08 ha (143.53 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	1.71 ha (4.23 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	
Total Area with Pedestrian Transects (10-m/39-ft Interval)	1.46 ha (3.60 acres)
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	4.41 ha (10.90 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	19.43 ha (48.02 acres)
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	.70 ha (1.72 acres)
Access Denied or Horse Pasture Not Surveyed	12.94 ha (31.98 acres)
Total Area Disturbed / Sloped / Low and Wet	17.41 ha (43.03 acres)
Total # of Shovel Tests	122
Total # Sites Documented	1
Total # Isolated Finds Documented	1

Segment O, which is approximately 1,603.53 m (5,260.94 ft) long, begins at Old Stage Road and extends east to Holland Church Road (see Figure 4.3-1b). The APE in the segment extends approximately 1,414 m (4,638 ft) along Old Stage Road. Two previously recorded sites are located within large agricultural fields near Old Stage Road and one of these, 31WA1853, overlaps the segment. Just over half of Segment O is covered by Norfolk loamy sand and the most extensive soil unit in the segment is Norfolk loamy sand, 2 to 6 percent slope. Norfolk soils are classified as well-drained. Wagrams, Rains, Lynchburg, Orangeburg, and other soil series are also present. Marking a change from many segments to the east, no Appling or Cecil soils are mapped in Segment O. At the time of the survey, the ground cover in Segment O consisted of extensive agricultural fields adjacent to Old Stage Road and Holland Church Road, with woods in the center of the segment. Residential lots are located along Old Stage Road and a horse paddock is located on the eastern edge of a wooded area. Two artificial ponds, separated by an elevated trail, are located just south of the horse paddock. Together they encompass 0.54 ha (1.33 acres). The terrain is very gently rolling in the western half of the segment and level in the eastern half. Only about 5 percent of Segment O is classified as moderately eroded and nearly three-quarters of the segment was not classified as eroded, slope, wet, or poorly drained. Only one large area (31.98 acres) within the APE for STIP R-2828 was denied access during the survey. The landowner, a representative of Mary Ball LLC, denied access to all of the properties in the western half of Segment O after initially allowing survey. This area is just east of Old Stage Road. Only a small part of the property was actually surveyed before the change in access. This resulted in the recording of one site (31WA1995) based on surface survey, and it was not possible to follow up at the site later when attempting to get permission to dig shovel tests or test units. More information on this site is provided below. It was also not possible to relocate

previously recorded site 31WA1853 (mapped along the northern boundary of the area), an Early Archaic lithic scatter recorded by Jim and Bob Oshnock, because access was denied. Survey resulted in the identification of two archaeological sites in Segment O and an extension of site 31WA1994 from Segment N (see Figure 4.3-2b).

SITE NUMBER: 31WA1995

SITE TYPE: Native American lithic scatter: Early to Middle Archaic

SOIL TYPE: Norfolk loamy sand, 2 to 6 percent slopes

SITE SIZE: 50 x 50 m (163 x 163 ft)

SELECTED ARTIFACTS: aphyric rhyolite Kirk Stemmed point, aphyric rhyolite Morrow Mountain II Stemmed point, plagioclase-quartz porphyritic rhyolite late stage biface, metavolcanic retouched flake, metavolcanic bifacial thinning flakes, quartz bifacial thinning flakes, metavolcanic interior flakes, plagioclase porphyritic rhyolite interior flake, quartz interior flakes, metavolcanic flake fragment

COMMENTS: The site was recorded during the visual assessment of a plowed wheat field with excellent surface visibility situated on a large upland flat in the western edge of Segment O, adjacent to Old Stage Road (Figure 4.3-101 and 4.3-102). A portion of the site is located outside of the APE, extending approximately 20 m to the east. The site assemblage (n=60), derived entirely from the ground surface and includes an incomplete aphyric rhyolite Kirk Stemmed point (the tip is missing), a aphyric rhyolite Morrow Mountain point, a plagioclase-quartz porphyritic rhyolite late stage biface (Figure 4.3-103), a retouched metavolcanic flake, two metavolcanic bifacial thinning flakes; two quartz bifacial thinning flakes; a plagioclase porphyritic rhyolite interior flake, five metavolcanic interior flakes, 44 quartz interior flakes, and two metavolcanic flake fragments (Table 4.3-42). Kirk Stemmed points date to the Early Archaic to Middle Archaic transition (Coe 1964:70). Morrow Mountain points date to the Middle Archaic period (Ward and Davis 1999:58-60). Judgmental shovel tests were not excavated as access to the property was inopportunely denied prior to completion of the survey. **RECOMMENDATIONS:** Since access was denied before subsurface testing could occur, this site is left as unassessed concerning eligibility for the NRHP under Criteria A, B, C, or D, as it has potential to be eligible based on the density of artifacts and the presence of diagnostic artifacts. A recommendation for eligibility of the site for NRHP cannot be made at this time.

Object	Count
Aphyric Rhyolite Kirk Stemmed Point	1
Aphyric Rhyolite Morrow Mountain II Stemmed Point	1
Plagioclase-Quartz Porphyritic Rhyolite Late Stage Biface	1
Metavolcanic Retouched Flake	1
Metavolcanic Bifacial Thinning Flake	2
Quartz Bifacial Thinning Flake	2
Metavolcanic Interior Flake	5
Plagioclase Porphyritic Rhyolite Interior Flake	1
Quartz Interior Flake	44
Metavolcanic Flake Fragment	2
Total	60

Table 4.3-42:	Summary	of Artifacts	Recovered	from '	31WA1995
1 a O C = -2.	Summary	of Anthacts	Recovered	nom.	JI W AI / JJ.



Figure 4.3-101: Map of Site 31WA1995. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-102: View of Site 31WA1995, Looking Northeast.



Figure 4.3-103: Native American Artifacts from 31WA1995: a) Late Stage Biface (Acc.# 2017.0069.01); b) Morrow Mountain II Stemmed Point (Acc.# 2017.0069.01); c) Kirk Stemmed Point (Acc.# 2017.0069.01).

SITE NUMBER: 31WA1996

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Orangeburg loamy sand, 6 to 10 percent slopes, moderately eroded

SITE SIZE: 18 x 18 m (57 x 57 ft)

SELECTED ARTIFACTS: quartz interior flake

COMMENTS: A single quartz interior flake was recorded while shovel testing on a gentle side slope of an upland flat at the center of Segment N. The artifact was recovered from Zone 1 of a positive shovel test. Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material.

RECOMMENDATIONS: This isolate lacks sufficient context for further interpretation and is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

Segment P (STIP R-2828)	
Length	1,340.72 m (4,398.70 ft)
Area	45.42 ha (112.24 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	.49 ha (1.21 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	6.38 ha (15.76 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	3.85 ha (9.52 acres)
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	34.70 ha (85.75 acres)
Total # of Shovel Tests	108
Total # Sites Documented	1
Total # Isolated Finds Documented	2

Table 4.3-43: Segment P Survey Summary.

Segment P is approximately 1,340.72 m (4,398.70 ft) long and extends between Holland Church Road and Sauls Road (see Figure 4.3-1b). A previously recorded site, 31WA1403, overlaps the northern edge of Segment P. The soils in Segment P are predominantly Wagram loamy sand, Rains fine sandy loam, Norfolk loamy sand, and Wagram-Troup sands. The most extensive soil units are Wagram loamy sand, 0 to 6 percent slopes and Rains fine sandy loam, 0 to 2 percent slopes. Wagram and Wagram-Troup sands are classified as somewhat excessively drained, Norfolk soils are classified as well-drained, and Rains soils are classified as poorly drained. Segment P is completely without land coded as eroded, although nearly 40 percent of the segment was classified as wet or poorly drained. Most of this area is along Juniper Branch, a creek that cuts through the middle of the segment. At the time of the survey, ground cover in

Segment P consisted of woods, open areas with low visibility, a cultivated field, and recent housing developments. The cultivated field was subject to surface survey at 10-m (33-ft) intervals. Wet and poorly drained areas were visually inspected at 30-m (98-ft) intervals. The remainder of the segment was shovel tested at 30-m (98-ft) intervals, where possible. Areas directly around houses were avoided because of the likelihood for buried utilities and disturbance. Survey resulted in the identification of one archaeological site and two isolated finds in Segment P (see Figure 4.3-2b). The largest of these sites, site 31WA1997&1997**, which is located west of Juniper Branch, includes cultural material found both on the surface of the cultivated field, and in shovel tests and test units in the adjacent woods. This appears to be then only intact stratified site encountered in the APE. No cultural material associated with 31WA1403 was identified during the survey.

SITE NUMBER: 31WA1997&1997**

SITE TYPE: Native American scatter: Early Archaic to Middle Woodland; Historic scatter: nineteenth to mid-twentieth century

SOIL TYPE: Wagram loamy sand, 0 to 2 percent slopes

SITE SIZE: 260 x 196 m (857 x 643 ft)

SELECTED ARTIFACTS: Native American Yadkin series ceramics, aphyric rhyolite Palmer Corner Notched point, quartz Palmer Corner Notched point, metavolcanic Stanly Stemmed point, quartz Guilford Lanceolate point, aphyric rhyolite Halifax Side Notched point, quartz Halifax Side Notched points, quartz small triangular point, quartz indeterminate notched point, aphyric rhyolite point tip, metavolcanic point midsection, aphyric rhyolite point base, metavolcanic point base, quartz porphyritic rhyolite mid to late stage biface, quartz porphyritic rhyolite biface, aphyric rhyolite retouched flakes, quartz retouched flake, aphyric rhyolite bifacial thinning flakes, metavolcanic bifacial thinning flakes, plagioclase porphyritic rhyolite bifacial thinning flakes, plagioclase porphyritic rhyolite interior flakes, quartz interior flakes, quartz porphyritic rhyolite interior flakes, quartzite interior flakes, quartz shatter, quartzite shatter, quartz core, sponged whiteware, undecorated whiteware, gray-bodied stoneware (North American), aqua container glass, colorless container glass, milk opaque white "milk glass" container glass, Woodbury cosmetic opaque white "milk glass" container glass, solarized/ manganese dioxide decolorized container glass, charcoal, petrified wood

COMMENTS: This large multicomponent site is situated on the top of an upland flat that lies just east of Holland Church Road. The site straddles a harvested sweet potato field with excellent surface visibility, a small portion of a narrow grassy pasture, and a wooded ridge spur containing mature trees. The agricultural field encompasses the northern portion of the site, while the pasture and woods encompasses the southern portion. The eastern portion of the site follows a narrow ridge spur with low and wet areas on three sides. The southwestern portion of the site is flanked by residential property. Figures 4.3-104 and 4.3-105 offer general views of the site, and Figure 4.3-106 is the site plan. The artifact assemblage (n=866) was collected from the ground surface, shovel tests, and test units at the site. The surface collection area, situated in the agricultural field, yielded a fairly high density of cultural materials (221 Native American artifacts, and 21 historic artifacts). Three judgmental shovel tests were excavated in the field to access stratigraphy in this portion of the site. Artifacts were recorded in the plow zone of each of the three shovel tests, with one test also contained artifacts in Zone 2 (the upper subsoil).



Figure 4.3-104: View of Site 31WA1997&1997** Wooded Area on Ridge Toe, Looking Northeast.



Figure 4.3-105: View of Site 31WA1997&1997** on Top of Upland in Agricultural Field, Looking East.



Figure 4.3-106: Map of Site 31WA1997&1997**. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-107a: Yadkin Series Ceramics from 31WA1997&1997**, Cord Marked Body and Base Sherds (Acc.# 2017.0071.50).



Figure 4.3-107b: Yadkin Series Ceramics from 31WA1997&1997**, Fabric Impressed Body Sherds (Acc.# 2017.0071.50).



Figure 4.3-107c: Yadkin Series Ceramics from 31WA1997&1997**, Fabric Impressed Rim and Body Sherds (Acc.# 2017.0071.50).



Figure 4.3-107d: Yadkin Series Ceramics from 31WA1997&1997**, Fabric Impressed Rim Sherd (Acc.# 2017.0071.50).



Figure 4.3-107e: Yadkin-Like Body Sherd from 31WA1997&1997** (Acc.# 2017.0071.70).



Figure 4.3-107f: Clay Impression from Yadkin-Like Body Sherd (Above) from 31WA1997&1997** (Acc.# 2017.0071.70). Note that impression shows use of a more complex twined fabric.


Figure 4.3-107g: Palmer Corner Notched Point from 31WA1997&1997** (Acc.# 2017.0071.18).



Figure 4.3-107h: Palmer Corner Notched Point from 31WA1997&1997** (Acc.# 2017.0071.78).



Figure 4.3-107i: Indeterminate Notched Point from 31WA1997&1997** (Acc.# 2017.0071.71).



Figure 4.3-107j: Points from 31WA1997&1997**: a) Small Triangular (Acc.# 2017.0071.01); b-d) Halifax Side Notched (Acc.# 2017.0071.01); e) Stanly Stemmed Base (Acc.# 2017.0071.01); f) Indeterminate Stemmed Point (Acc.# 2017.0071.01).



Figure 4.3-107k: Large Triangular Point Base from 31WA1997&1997** (Acc.# 2017.0071.78).

IN-DEPTH EVALUATION: Due to the large size of the site and the presence of several artifact concentrations, 11 1-x-1-m test units was excavated to ascertain the integrity of subsurface deposits and the stratigraphic relationships between different areas of the site. A historic feature, a square post mold and post hole, was encountered in Shovel Test 1 that was excavated in the central portion of the site on the highest portion of the landform. Two distinct precontact cultural strata appear to be preserved on the eastern edge of the ridge spur in the wooded portion of the site. The strata are defined by Middle Woodland period ceramics beneath the intact Ahorizon and Archaic points and debitage recovered from deeper levels. Diagnostic points types and forms include Stanly Stemmed (Middle Archaic), small triangular (likely Late Woodland), Halifax Side Notched (Middle Archaic), large triangular (earlier Woodland), and Palmer Corner Notched (Early Archaic). Diagnostic Native American ceramics include large sherds of the Yadkin series (Middle Woodland) that may be from the same vessel. Figures 4.3-107a through 4.3-107k illustrates the range of Native American diagnostics that were recovered at the site. Diagnostic historic artifacts include solarized/manganese dioxide decolorized container glass, gray-bodied stoneware (North American), undecorated and sponged whiteware, and opaque white "milk glass" container glass (included one piece of Woodbury cosmetic type). Some of these historic items were collected from the plow zone of the test units excavated at the site.

Shovel Test 1, located at the northwest corner of the small patch of grass pasture between a house and the woods, came down upon a dark stain with charcoal in Zone 2 (Feature 1). In order to explore this stain, a 1-x-1- m test unit (Test Unit 1) was excavated over the shovel test area. After removing the plow zone, another unit was opened immediately west of the first to fully expose this feature (Test Unit 2). After bisecting and profiling the feature it was identified as a historic square post hole and post mold with a burned portion of the square post still in the fill of the feature (Figures 4.3-108 and 109). These two units yielded a large assemblage of artifacts (n=164), all of which are lithic debitage except for a piece of solarized/ manganese dioxide decolorized container glass and a pieces of colorless container glass. The lithic artifacts derived from throughout Zones 1 and 2, yet diminished in density with depth. Since Feature 1 is a post hole and post mold, Test Unit 3 was placed five meters from the eastern edge of the first two units in an attempt to find another post if it was part of a fence or structure. No other features were located, but 49 additional lithic artifacts were collected, and also another piece of colorless container glass. The typical profile in this portion of the site has two soil zones with Zone 1 a brown (10YR 4/3) silty loam plow zone that averaged approximately 15 cm in thickness, and Zone 2 a very pale brown (10YR 7/4) sandy loam possible E-horizon (Figure 4.3-110 and 4.3-111). Zone 2 of Test Unit 3 was a yellowish brown (10YR 5/6) sandy clay. A lower, clayey subsoil was not reached and these units were abandoned after two sterile 10-cm levels were excavated in succession.

The quantity of artifacts recovered from Test Unit 1 (n=103) is almost double the respective amounts recovered from Test Unit 2 (n=61) and Test Unit 3 (n=50) (see Table 4.3-44 through Table 4.3-46). Three-fourths of the artifacts recovered from these three units derived from Zone 2 of the tests. The feature fill and a portion of the burned wooden post contained 33 lithic artifacts. The few historic artifacts encountered were recovered from the plow zone of these tests. The lithic artifacts recovered from Test Units 1, 2, and 3 include materials that are quartz, metavolcanic, quartzite, aphyric rhyolite, plagioclase porphyritic rhyolite, and quartz porphyritic rhyolite. The lithic items include includes a retouched flake, an indeterminate biface, bifacial thinning flakes, interior flakes, indeterminate fragments, and shatter. Metavolcanic materials comprise half of the artifacts recovered from Test Units 1, 2, and 3. A single indeterminate Native American ceramic sherd, under 2 cm in maximum dimension, was also recovered from the plow zone of Test Unit 2. Although the sherd is small, it appears to be generally consistent with the other Yadkin series sherds recorded in the plow zone elsewhere at the site. A single piece of solarized/manganese dioxide decolorized container glass was also recovered from the plow zone of Test Unit 1, and colorless container glass was recovered from the plow zone of Test Unit 3. Solarized/manganese dioxide decolorized container glass production dates range from 1820s to 1930s (Lindsey 2017).

Object	Zone/Level	Count	Percentage in Test Unit
Aphyric Rhyolite Interior Flake	1/1	1	0.97%
Metavolcanic Interior Flake	1/1	8	7.77%
Quartz Interior Flake	1/1	3	2.91%
Quartz Porphyritic Rhyolite Interior Flake	1/1	2	1.94%
Quartz Shatter	1/1	1	0.97%
Solarized/ Manganese Dioxide Decolorized Container Glass	1/1	1	0.97%
Aphyric Rhyolite Interior Flake	1 Backfill	2	1.94%
Metavolcanic Interior Flake	1 Backfill	2	1.94%
Metavolcanic Bifacial Thinning Flake	2/1	6	5.83%
Metavolcanic Interior Flake	2/1	26	25.24%
Quartz Interior Flake	2/1	4	3.88%
Quartz Porphyritic Rhyolite Interior Flake	2/1	1	0.97%
Metavolcanic Interior Flake	2/2	13	12.62%
Quartz Interior Flake	2/2	3	2.91%
Metavolcanic Interior Flake	2/3	4	3.88%
Quartz Interior Flake	2/3	1	0.97%
Aphyric Rhyolite Interior Flake	2/4	1	0.97%
Metavolcanic Interior Flake	2/4	1	0.97%
Metavolcanic Bifacial Thinning Flake	Feature 1 wall cleaning	1	0.97%
Metavolcanic Interior Flake	Feature 1 wall cleaning	6	5.83%
Quartz Interior Flake	Feature 1 wall cleaning	2	1.94%
Metavolcanic Bifacial Thinning Flake	Feature 1/Level 2	2	1.94%
Metavolcanic Interior Flake	Feature 1/Level 2	1	0.97%
Metavolcanic Interior Flake	Feature 1/Level 3	1	0.97%
Quartz Interior Flake	Feature 1/Level 3	1	0.97%
Metavolcanic Bifacial Thinning Flake	Feature 1/Level 5	1	0.97%
Metavolcanic Interior Flake	Feature 1/Level 5	1	0.97%
Metavolcanic Interior Flake	Feature 1/Level 7	1	0.97%
Metavolcanic Interior Flake	Backfill	6	5.83%
Total		103	100.00%

Table 4.3-44: Summary of Artifacts Recovered from Test Unit 1 at 31WA1997&1997**, by Zone and Level.



Figure 4.3-108: Site 31WA1997&1997**, Test Units 1 & 2 Feature 1, Sketch of West Profile.



Figure 4.3-109: Site 31WA1997&1997**, Test Units 1 & 2 Feature 1, Photograph of West Profile.



Figure 4.3-110: Site 31WA1997&1997**, Test Units 1 & 2, Sketch of North Profile.



Figure 4.3-111: 31WA1997&1997**, Test Units 1 & 2, Photograph of North Profile.

Object	Zone/Level	Count	Percentage in Test Unit
Metavolcanic Bifacial Thinning Flake	1/1 East half	2	3.28%
Aphyric Rhyolite Interior Flake	1/1 East half	1	1.64%
Metavolcanic Interior Flake	1/1 East half	7	11.48%
Indeterminate Native American Ceramic	1/1 West half	1	1.64%
Aphyric Rhyolite Interior Flake	1/1 West half	1	1.64%
Metavolcanic Interior Flake	1/1 West half	6	9.84%
Quartz Interior Flake	1/1 West half	1	1.64%
Quartz Porphyritic Rhyolite Interior Flake	1/1 West half	1	1.64%
Colorless Container Glass	1/1 West half	1	1.64%
Metavolcanic Bifacial Thinning Flake	2/1	2	3.28%
Aphyric Rhyolite Interior Flake	2/1	2	3.28%
Metavolcanic Interior Flake	2/1	22	36.07%
Quartzite Fragment	2/1	1	1.64%
Metavolcanic Bifacial Thinning Flake	2/2	1	1.64%
Metavolcanic Interior Flake	2/2	6	9.84%
Plagioclase Porphyritic Rhyolite Interior Flake	2/2	1	1.64%
Quartz Interior Flake	2/2	3	4.92%
Metavolcanic Interior Flake	2/3	1	1.64%
Quartz Interior Flake	2/3	1	1.64%
Total		61	100.00%

Table 4.3-45: Summary of Artifacts Recovered from Test Unit 2 at 31WA1997&1997**, by Zone and Level.

Table 4.3-46: Summary of Artifacts Recovered from Test Unit 3 at 31WA1997&1997**, by Zone and Level.

Object	Zone/Level	Count	Percentage in Test Unit
Metavolcanic Bifacial Thinning Flake	1/1	2	4.00%
Aphyric Rhyolite Interior Flake	1/1	1	2.00%
Metavolcanic Interior Flake	1/1	6	12.00%
Plagioclase Porphyritic Rhyolite Interior Flake	1/1	1	2.00%
Colorless Container Glass	1/1	1	2.00%
Aphyric Rhyolite Retouched Flake	2/1	1	2.00%
Aphyric Rhyolite Interior Flake	2/1	1	2.00%
Metavolcanic Interior Flake	2/1	10	20.00%
Indeterminate Quartz Porphyritic Rhyolite Biface	2/2	1	2.00%
Metavolcanic Bifacial Thinning Flake	2/2	3	6.00%
Aphyric Rhyolite Interior Flake	2/2	1	2.00%
Metavolcanic Interior Flake	2/2	6	12.00%
Quartz Interior Flake	2/2	2	4.00%
Metavolcanic Bifacial Thinning Flake	2/3	1	2.00%
Metavolcanic Interior Flake	2/3	5	10.00%



Figure 4.3-112: Site 31WA1997&1997**, Test Unit 6, Sketch of North Profile.



Figure 4.3-113: 31WA1997&1997**, Test Unit 6, Photograph of North Profile.

Metavolcanic Bifacial Thinning Flake	2/4	1	2.00%
Metavolcanic Interior Flake	2/4	6	12.00%
Quartz Fragment	2/4	1	2.00%
Total		50	100.00%

Due to the size of the surface scatter at the site, two 1-x-1-m test units were opened to explore site integrity in the sweet potato field. Test Unit 5 was placed in the south-central portion of the scatter, which contained the highest concentration of artifacts, and Test Unit 6 was excavated in the western half of the surface scatter for coverage. These two units yielded only a combined total of 12 lithic artifacts, which are summarized in Table 4.3-47. Most of these artifacts derived from the plow zone, with the exception of a metavolcanic interior flake and a metavolcanic flake fragment that were recorded in Zone 2 of the tests. Test Units 5 and 6 revealed a three-zone soil profile for this portion of the site: Zone 1, a brown (10YR 5/3) sandy loam plow zone approximately 25 cm in thickness; Zone 2, a light yellowish brown (10YR 6/4) sandy loam possible E-horizon approximately 12 cm in thickness; and Zone 3, a yellowish brown (10YR 5/6) sandy clay subsoil (Figures 4.3-112 and 4.3-113). Plow scars were evident at the top of Zone 2 in both units.

Table 4.3-47:	Summary	of Artifacts	Recovered	from Te	est Unit 5	and 6 at	31WA19	97&199	7**,
by Zone and L	.evel.								

Object	Zone/Level	Count	Percentage in Test
			Unit
quartz biface fragment	1/1	1	8.33%
metavolcanic interior flake	1/1	6	50.00%
quartz porphyritic rhyolite interior flake	1/1	2	16.67%
metavolcanic interior flake	2/1	1	8.33%
metavolcanic flake fragment	2/1	1	8.33%
plagioclase porphyritic rhyolite interior flake	1/1	1	8.33%
Total		12	100.00%

Test Unit 7 was excavated about midway down the ridge spur to the east in the wooded area; between Shovel Tests 25 and 26 (these two shovel tests had yielded 28 pieces of debitage). This unit yielded 84 pieces of lithic debitage and four Native American ceramic sherds. These materials are summarized in Table 4.3-48. The stratigraphy revealed in Test Unit 7 differs from the other test units described previously. The soil profile in this portion of the site contains three zones: Zone 1, a dark grayish brown (10YR 4/2) sandy loam A-horizon 12 cm in thickness; Zone 2, a yellowish brown (10YR 5/6) sandy loam or sand E-horizon 80 cm in thickness; Zone 3, a yellow (2.5Y 7/6) sand layer (Figures 4.3-114 and 4.3-115). Artifacts were not recorded in the A-horizon (Zone 1) of the test unit. All but one of the artifacts encountered in the unit derived from the E-horizon (Zone 2). Test Unit 7 is similar to the three test units excavated in the grass pasture in that, Zone 2 is deep and artifacts were recorded throughout this depth, and also, clay subsoil was not reached during excavation. The main difference is that Test Unit 7 did not contain evidence of plow disturbance, and Native American ceramics were recorded on the top of Zone 2 of the unit. The four fabric-impressed Native American ceramic sherds are of the Yadkin series and they appear to derive from the same vessel. The Yadkin series ceramics date

Zone 1	East Profile
Zone 2a	
	Key:
	Distinct Boundary
	Diffuse Boundary
	Unexcavated
Zone 2b	
	Centimeters
	0 12.5 25
Zone 3	Inches
	0 5 10
Zone 1 –10YR 4/2 Dark Grayish Brown S	andy Loam
Zone 2a –10YR 5/6 Yellowish Brown Sand Zone 2b –10YR 6/6 Brownish Yellow Sand	ly Loam I to Sandy Loam
Zone 3 –2.5Y 7/6 Yellow Fine Sand	

Figure 4.3-114: Site 31WA1997&1997**, Test Unit 7, Sketch of East Profile.



Figure 4.3-115: 31WA1997&1997**, Test Unit 7, Photograph of East Profile.

to the Middle Woodland, approximately 500 B.C. to A.D. 500 (Coe 1964:30-32; Ward and Davis 1999:86). A possible piece of petrified wood was also recovered from Zone 2 of the unit (see Table 4.3-48).

Test Unit 4 was excavated in an area at the eastern-most point of the ridge spur, immediately adjacent to Shovel Test 17 (this shovel test yielded four weft-faced, fabric-impressed Yadkin series ceramic sherds from Zone 2). The areas to the north, east, and south of Test Unit 4 are low and wet. The unit assemblage (n=39) contains fragments from two distinct diagnostic ceramic vessels found in Zone 2 (see Figures 4.3-107a and 107b), as well lithic artifacts and charcoal. Zone 1 of the unit yielded three indeterminate ceramic sherds under 2 cm in maximum dimension. Zone 2 of the unit yielded 22 ceramic sherds consistent with the Yadkin series. Thirteen of these sherds contain weft-faced fabric impressions, and nine sherds are cord-marked. The fabric-impressed sherds ranged in size from 1 and 8 cm in maximum dimension and appear to pertain to the same vessel. One of the cord-marked sherds is from the base of a vessel and is 15 mm thick. The cord-marked sherds range in size from 3 to 9 cm in maximum dimension and appear to be of the same vessel.

Excavation revealed a three-zone soil profile for the unit: Zone 1, a light yellowish brown (10YR 6/2) sandy loam A-horizon 18 cm in thickness; Zone 2, a yellowish brown (10YR 5/4) sandy E-horizon 10 cm in thickness; and Zone 3, pale yellow (2.5YR 7/4) sand. Zone 2 of the unit was only 10 cm in thickness before transitioning to Zone 3. One of the fabric-impressed Yadkin series ceramic sherds was recovered at the transition between Zones 2 and 3. This sherd may have been moved downward through the process of bioturbation. Zone 3 of the unit also yielded four quartz interior flakes and eight small pieces of charcoal (Table 4.3-49).

Object	Zone/ Level	Count	Percentage in Test Unit
Native American Yadkin Series Ceramic	2/1	4	4.49%
Metavolcanic Bifacial Thinning Flake	2/1	3	3.37%
Quartz Bifacial Thinning Flake	2/1	1	1.12%
Quartz Interior Flake	2/1	2	2.25%
Metavolcanic Bifacial Thinning Flake	2/2	1	1.12%
Metavolcanic Interior Flake	2/2	5	5.62%
Quartz Interior Flake	2/2	4	4.49%
Quartz Shatter	2/2	1	1.12%
Aphyric Rhyolite Bifacial Thinning Flake	2/3	1	1.12%
Metavolcanic Bifacial Thinning Flake	2/3	2	2.25%
Aphyric Rhyolite Interior Flake	2/3	1	1.12%
Metavolcanic Interior Flake	2/3	3	3.37%
Quartz Interior Flakes	2/3	21	23.60%
Quartzite Interior Flake	2/3	1	1.12%
Metavolcanic Bifacial Thinning Flake	2/4	1	1.12%
Quartz Bifacial Thinning Flake	2/4	1	1.12%

Table 4.3-48: Summary of Artifacts Recovered from Test Unit 7 at 31WA1997&1997**, by Zone and Level.

Aphyric Rhyolite Interior Flake	2/4	2	2.25%
Metavolcanic Interior Flake	2/4	2	2.25%
Quartz Interior Flake	2/4	7	7.87%
Metavolcanic Interior Flake	2/5	7	7.87%
Quart Interior Flake	2/5	14	15.73%
Quartz Unmodified Pebble	2/5	1	1.12%
Metavolcanic Bifacial Thinning Flake	2/6	1	1.12%
Metavolcanic Flake Fragment	2/6	1	1.12%
Petrified Wood	2/6	1	1.12%
Metavolcanic Interior Flake	2/8	1	1.12%
Total		89	100.00%

Test Unit 8 was excavated in an attempt to ascertain the extent of the concentration of ceramics before the landform dropped off to the north. It was placed about 15 m to the north of Test Unit 4, between Shovel Tests 9 and 13. The unit assemblage (n=54) is comprised almost entirely of lithic debitage, with the exception of one indeterminate fabric or net impressed Native American sherd recovered from the top of Zone 2 of the unit (Table 4.3-50). The highest concentration of lithic materials in the unit was recorded in Zone 3. Additional shovel tests were excavated on the wooded ridge spur to fill in gaps of coverage for the internal portion of the area and to help determine the dimensions of the ceramic concentration. Three of the additional shovel tests were positive for Native American artifacts. The most notable of these items is a Palmer Corner Notched point which was recovered from Zone 3 of Shovel Test 34 (see Figure 4.3-107g). Shovel Test 34 was excavated about 30 m west of Shovel Test 17, which contained a ceramic concentration. To better understand the ceramic cluster and the stratigraphy in this portion of the site, three additional 1-x-1-m test units were excavated approximately a meter away from Test Unit 4, these include Test Unit 9, to the north (Table 4.3-51); Test Unit 10, to the east (Table 4.3-52); and Test Unit 11, to the south (Table 4.3-53). These three units yielded only one additional ceramic sherd from Zone 2, a fabric-impressed Yadkin series sherd. The fabric used to make the impression on this sherd was twined (see Figure 4.3-107e and 107f) rather than weft-faced like the fabric used to make the impressions on the sherds recovered from Test Unit 4 and Shovel test 17.

Object	Zone/ Level	Count	Percentage in Test Unit
Indeterminate Native American Ceramic Under 2 cm Maximum Dimension	1/1	3	7.89%
Fabric-Impressed Yadkin Series Ceramic	2/1	13	34.21%
Cord-Marked Yadkin Series Ceramic	2/1	9	23.69%
Fabric-Impressed Yadkin Series Ceramic	3/1	1	2.63%
Quartz Interior Flake	3/1	4	10.53%
Charcoal	3/1	8	21.05%
Total		38	100.00%

Table 4.3-49: Summary of Artifacts Recovered from Test Unit 4 at 31WA1997&1997**, by Zone and Level.

Object	Zone/	Count	Percentage
Quartzite Interior Flake	1/2	1	1 85%
Indeterminate Fabric or Net Impressed Native American Ceramic	2/1	1	1.85%
Aphyric Rhyolite Interior Flake	2/1	2	3 70%
Metavolcanic Interior Flake	2/1	1	1.85%
Quartz Interior Flake	2/1	6	11.11%
Aphyric Phyolita Patouchod Elako	2/1	0	1 85%
Matavalaania Interior Eleka	2/2	2	5 56%
Questa Interior Flake	2/2	0	14.810/
Quartz Interior Flake	2/2	8	14.81%
Quartz Core	2/2	1	1.85%
Metavolcanic Interior Flake	3/1	1	1.85%
Quartz Interior Flake	3/1	10	18.52%
Metavolcanic Fragment	3/1	1	1.85%
Aphyric Rhyolite Interior Flake	3/2	1	1.85%
Metavolcanic Interior Flake	3/2	4	7.41%
Quartz Interior Flake	3/2	10	18.52%
Aphyric Rhyolite Interior Flake	3/3	1	1.85%
Metavolcanic Interior Flake	3/3	2	3.70%
Total		54	100.00%

Table 4.3-50: Summary of Artifacts Recovered from Test Unit 8 at 31WA1997&1997**, by Zone and Level.

Table 4.3-51: Summary of Artifacts Recovered from Test Unit 9 at 31WA1997&1997** by Zone and Level

Object	Zone/	Count	Percentage
	Level		in Test Unit
Quartz Interior Flake	1/1	1	6.25%
Fabric Impressed Yadkin Series Ceramic	2/1	1	6.25%
Quartz Indeterminate Notched Point	3/1	1	6.25%
Aphyric Rhyolite Bifacial Thinning Flake	3/1	1	6.25%
Aphyric Rhyolite Interior Flake	3/1	1	6.25%
Metavolcanic Interior Flake	3/1	2	12.50%
Metavolcanic Interior Flake	3/2	2	12.50%
Quartz Interior Flake	3/2	1	6.25%
Aphyric Rhyolite Flake Fragment	3/2	1	6.25%
Aphyric Rhyolite Large Triangular Point Base	3/3	1	6.25%
Metavolcanic Interior Flake	3/3	1	6.25%
Quartz Interior Flake	3/3	2	12.50%
Metavolcanic Interior Flake	3/5	1	6.25%
Total		16	100.00%

Object	Zone/	Count	Percentage
	Level		in Test Unit
Quartz Interior Flake	1/2	1	2.04%
Metavolcanic Bifacial Thinning Flake	2/1	1	2.04%
Quartz Interior Flake	2/1	2	4.08%
Aphyric Rhyolite Biface	3/1	1	2.04%
Quartz Bifacial Thinning Flake	3/1	1	2.04%
Metavolcanic Interior Flake	3/1	4	8.16%
Quartz Interior Flake	3/1	12	24.49%
Quartz Shatter	3/1	1	2.04%
Quartzite Fragment	3/1	1	2.04%
Quartz Palmer Corner Notched Point	3/2	1	2.04%
Metavolcanic Point Midsection Only	3/3	1	2.04%
Quartz Interior Flake	3/2	9	18.37%
Quartzite Fragment	3/2	1	2.04%
Quartz Interior Flake	3/3	9	18.37%
Quartz Interior Flake	3/4	4	8.16%
Total		49	100.00%

Table 4.3-52: Summary of Artifacts Recovered from Test Unit 10 at 31WA1997&1997**, by Zone and Level.

Table 4.3-53: Summary of Artifacts Recovered from Test Unit 11 at 31WA1997&1997** by Zone and Level.

Object		Count	Percentage in Test Unit
Quartz Interior Flake	1/1	1	2.86%
Quartz Interior Flake	2/1	1	2.86%
Quartz Interior Flake	2/2	3	8.57%
Quartz Interior Flake	3/1	15	42.86%
Metavolcanic Biface Fragment	3/2	1	2.86%
Plagioclase Porphyritic Rhyolite Bifacial Thinning Flake	3/2	1	2.86%
Metavolcanic Interior Flake	3/2	2	5.71%
Quartz Interior Flake	3/2	8	22.86%
Quartz Interior Flake	3/3	3	8.57%
Total		35	100.00%

The combined assemblage for Test Units 9, 10, and 11 (n=100) is comprised almost entirely of lithic artifacts, with the aforementioned single Yadkin series sherd representing the only other artifact type recovered from these three units. The Yadkin ceramic series dates to the Middle Woodland, approximately 500 B.C. to A.D. 500 (Coe 1964:30-32; Ward and Davis 1999:86). Quartz materials make up more than two-thirds of the assemblage. Test Unit 9 yielded an indeterminate quartz notched point and an aphyric rhyolite large triangular from Zone 3 of the unit (see Table 4.3-51). Test Unit 10 yielded a quartz Palmer Corner Notched point (see Figure 4.3-107h) and two indeterminate bifaces from Zone 3 of the unit (see Table 4.3-52). Palmer Corner Notched points have been dated from 8000 to 7000 B.C. and represent the Early Archaic period (Coe 1964:67; Ward and Davis 1999:55). Test Unit 11 also yielded an indeterminate biface from Zone 3 (Table 4.3-53). With noted exception, the typical soil profile for this portion



Figure 4.3-116: Site 31WA1997&1997**, Test Unit 8, Sketch of West Profile.



Figure 4.3-117: 31WA1997&1997**, Test Unit 8, Photograph of West Profile.

of the site contains three zones: Zone 1, a dark grayish brown (10YR 4/2) sandy loam A-horizon approximately 16 cm in thickness; Zone 2, a yellowish brown (10YR 5/4) sand E-horizon approximately 10 cm in thickness; Zone 3, a pale light yellowish brown (10YR 6/4) sand. A yellowish brown (10YR 5/8) sandy clay subsoil was reached in Test Unit 8, making Zone 3 about 70 cm thick (Figures 4.3-116 and 4.3-117). Zone 1 of Test Unit 9 also differed; it contained a light brownish gray (10YR 6/2) sandy loam. Column soil samples were collected from Test Unit 7 and 8 for possible future analysis by a geomorphologist.

The site assemblage (n=866) is summarized in Table 4.3-54. Artifact recovered from the surface and shovel tests (n=359) are predominately lithic items (342 artifacts). These lithic items include a Stanly Stemmed point, Halifax Side Notched points, a small triangular point, a mid- to late-stage biface, an indeterminate stemmed point, an indeterminate point, biface fragments, retouched flakes, bifacial thinning flakes, interior flakes, flake fragments, indeterminate fragments, and shatter. Lithic materials represented include quartz, quartz porphyritic rhyolite, plagioclase porphyritic rhyolite, aphyric rhyolite, quartzite, and metavolcanic. More than half of the lithics are of quartz material, and one third is of metavolcanic material. More than two thirds of the artifacts are interior flakes. Stanly Stemmed points are from the beginning of the Middle Archaic period, from 6000-5000 B.C. (Chapman 1977, McAvoy and McAvoy 1997, Ward and Davis 1999). Halifax Side Notched points date to the Middle Archaic from 4000 to 3000 B.C. (Coe 1964, Ward and Davis 1999). Palmer Corner Notched points date to the Early Archaic period, as previously referenced. Aside from the four fabric-impressed Yadkin series ceramics from Shovel Test 17 located in Zone 2, there was one fabric-impressed Yadkin series ceramic from Shovel Test 31 in Zone 2.

Historic artifacts from the site (n=12) include undecorated and sponged whiteware; aqua, solarized/manganese dioxide decolorized (amethyst), and opaque white "milk bottle" (one example of Woodbury cosmetic) container glass, and gray-bodied stoneware (North American). These counts are included in Table 4.3-54. Opaque white "milk glass" ranges in date from primarily 1870s to the mid twentieth century (JPPM 2017, Lindsey 2017), but the Woodbury cosmetic type was in production from 1870 to 1901 (Cosmetics and Skin 2017). Solarized/ manganese dioxide decolorized container glass dates from the 1820s to the 1930s (JPPM 2017, Lindsey 2017). Undecorated whiteware dates from the 1830 to the present (Miller et al. 2000), except for the sponged whiteware which ranges in production dates from 1860 to 1935 (JPPM 2017).

The northern portion of this site, in the agricultural field, has been heavily impacted by plowing. Nearly all of the diagnostic artifacts encountered from this portion of the site came from the ground surface. These include three Halifax Side Notched Points, a Stanly Stemmed point, and a small triangular point. The exceptions are a piece of solarized/manganese dioxide decolorized container glass recorded in the plow zone (Zone 1/Level 1) of Test Unit 1, and a sherd of Yadkin series ceramic recorded in the plow zone (Zone 1/Level 1) of Test Unit 2. The presence of the Yadkin series sherd in the upland part of the site indicates that this area relates to the ceramic assemblage found along the forested ridge spur. Nevertheless, the results from Test Units 1, 2, 3, 5, and 6 clearly indicate that this portion of site has lost its stratigraphic integrity mainly through agricultural activities. More than half of the artifacts encounter in the agricultural field derived from the ground surface and Zone 1 (the plow zone in this portion of the site). Zone 2, Level 1

Fabric-Impressed Yadkin Series Ceramic24Cord-Marked Yadkin Series Ceramic9Indeterminate Native American Ceramic5Aphyric Rhyolite Palmer Corner Notched Point1Quartz Palmer Corner Notched Point1Metavolcanic Stanly Stemmed Point1Aphyric Rhyolite Haliaks Side Notched Point2Aphyric Rhyolite Haliaks Side Notched Point2Aphyric Rhyolite Haliaks Side Notched Point2Aphyric Rhyolite Haliaks Side Notched Point1Quartz Small Triangular Point1Quartz Indeterminate Notched Point1Quartz Indeterminate Point Tip1Metavolcanic Indeterminate Point Midsection1Metavolcanic Indeterminate Point Midsection1Quartz Porphyritic Rhyolite Biface1Quartz Porphyritic Rhyolite Biface1Quartz Biface Fragment2Quartz Biface Fragment2Quartz Biface Fragment2Quartz Biface Fragment2Quartz Bifacial Thinning Flake4Aphyric Rhyolite Bifacial Thinning Flake4Aphyric Rhyolite Bifacial Thinning Flake4Aphyric Rhyolite Interior Flake272Placicalse Porphyritic Rhyolite Interior Flake272Quartz Interior Flake272Quartz Interior Flake272Quartz Endenchel Flake Fragment359Quartz Endenchel Flake Fragment359Quartz Retouched Flake Fragment55Quartz Interior Flake71Aphyric Rhyolite Interior Flake12 <th>Object</th> <th>Count</th>	Object	Count
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 Table 4.3-54:
 Summary of Artifacts Recovered from 31WA1997&1997**.

Colorless Container Glass	2
Opaque White "Milk Glass" Container Glass	2
Charcoal	8
Petrified Wood	1
Total	866

in this area yielded 100 artifacts, while Zone 2, Level 2 yielded 53 artifacts. Zone 2, Level 3 in this portion the site contained 33 artifacts, and Zone 2, Level 4 contained just 10 items. The density of materials clearly diminished with depth. This portion of the site appears to lack intact datable occupation surfaces.

The wooded portion of the site to the southeast, along the length of the ridge spur surrounded by low-lying wet areas, does not contain evidence of plowing. This area yielded diagnostic artifacts and debitage from Zones 2 and 3. Subsurface testing along this landform indicates that the stratigraphy appears uniform across it, and it seems that the low ridge incorporates stream terrace deposits in which the archaeological record is preserved. Evidence for two different components is present in the intact stratigraphy of this portion of the site. The first component was revealed in Zone 2 of Shovel Test 17 and Test Unit 4 which each contained multiple sherds of two separate Yadkin series vessels (one cord-marked and the other fabric-impressed). This component extends 15 m to the north as evidenced in Zone 2 of Test Unit 8, which contained a Yadkin series sherd. It also extends 105 m west, up the ridge spur back towards the upland flat as evidenced by Shovel Test 31, which yielded Yadkin series sherd in Zone 2 of the test. This component of the site dates to the Middle Woodland.

The second component was revealed in Zone 3 of Test Unit 10, which yielded a Palmer Corner Notched point. About 20 m to the west, Zone 3 of Shovel Test 34 also yielded a Palmer Corner Notched point. Test Unit 9, just a few meters northwest of Test Unit 10, vielded an indeterminate notched point from Zone 3. Test Unit 9 also yielded a large triangular point from the same zone, which may be related to the Middle Woodland component in Zone 2 and could suggest at least some degree of bioturbation. However, Zone 3 in this portion of the site yielded only lithic artifacts (almost twice as many as Zones 1 and 2 from this portion of the site combined), with the exception of a single Yadkin series ceramic sherd recovered at the transition between Zones 2 and 3. Zone 3 appears to correspond to an intact Early Archaic component based on the Palmer Corner Notched points and the higher lithic density. The single Yadkin series ceramic sherd recovered Zone 2, Level 1 of Test Unit 7 which, encountered at the same depth as all the other Yadkin series ceramics sherds recorded across the landform. Test Unit 7, Zone 2, Levels 2 through 8 correspond to Zone 3 in the other five test units excavated on the eastern end of the landforms. The Zone 2 levels in Test Unit 7 are also consistent with the same pattern of increased artifact density in the lower levels of the other units. This suggests that the extent of the Early Archaic component of the site has the same dimensions as the Middle Woodland component, about 100 m east to west and 30 m north to south.

Despite encountering a posthole and mold, the historic component of the site seems to have little integrity and is concentrated near a house that is located next to the agricultural field. Other than

the posthole and mold, no other historic feature was revealed during the excavation of Test Units 1 and 2.

RECOMMENDATIONS: The north and wests portion of the site, in the agricultural field and adjacent pasture, appear to have been heavily impacted by intensive plowing. Despite the recovery of several diagnostic points and the presence of historic posthole and post mold, this portion of the site appears to have little potential to provide additional information on precontact and historic inhabitants of the Central Piedmont region of North Carolina and does not appear to contribute to any eligibility for the NRHP under Criteria A, B, C, and D. The southeastern portion of the site, along the wooded ridge spur that extends towards the drainage, appears to possess intact buried deposits in an unplowed area. As discussed above, Zone 2 appears to represent a single Middle Woodland occupation, and Zone 3 appears to contain evidence of one or more Early Archaic occupations. This ridge spur yielded no historic artifacts. This untouched remnant of a larger site appears to have both intact deposits, dated by diagnostic artifacts, with the potential to provide additional information on Middle Woodland and Early Archaic settlement of the Central Piedmont region of North Carolina. This portion of the site is recommended as eligible for the NRHP under Criterion D. The site is not recommended eligible to the NRHP under Criteria A, B, or C.

Early Archaic research in the Piedmont of North Carolina has primarily focused on sites near the Uwharrie rhyolite stone sources at Morrow Mountain in the Yadkin-Pee Dee River drainage basin. Sites such as Hardaway, Doerschuk, and Lowder's Ferry yielded results that formed the foundation for the lithic chronology and typology of North Carolina and for most of the Southeast (Ward and Davis 1999). Few stratified sites with Early Archaic deposits have been located along the fall line along the eastern edge of the Southern Piedmont. Site 31WA1997&1997** is unique as it rests in the Neuse River drainage basin.

Daniel's (2001) critique of the band-macroband model for Early Archaic settlement in the southeast (Anderson and Hanson 1988) argues for the consideration of the location of high quality knappable stone sources as an important geographical limit on the range of mobile groups. Rather than bands solely circumscribed within a river drainage basin, Daniel argues that there is evidence in the distribution of Palmer and Kirk points that indicate that groups with direct access to lithic sources would have crossed drainages to access the best material to refit their tool kit and to take advantage of the biface technology to facilitate forager mobility patterns (2001:239). Specifically, the Uwharrie rhyolites from the quarries near Morrow Mountain are found in similar quantities throughout the Yadkin-Pee Dee River drainage and across the river drainages of the piedmont of North and South Carolina, dropping off in frequency at about 200 km from the source where more local material like quartz is more prevalent and supplemented the tool kit. Naming this the Uwharrie-Allendale model, Daniel views this settlement pattern as an adaptation where "foraging strategy and curated technology [transport of material in anticipation of future use] are components of an adaptation that allowed low-density population to sustain themselves demographically by circulating for marital partners and other social contracts" (2001:260-261). Implicit in his argument is the assumption that predictable limited stone resources would be just as important a driver of settlement as would the less predictable more widely available subsistence resources. Daniel also indicates that tool curation in the Early Archaic reveals more about the use of stone raw material than forager/collector mobility.

Moore and Irwin (2013) expand on these two models based on their research of Early Archaic settlement in the North Carolina Sand Hills at Fort Bragg. This region is located within the Cape Fear River drainage. Early Archaic settlement at Fort Bragg is characterized by wide-ranging use of the upland interior landscape with sites located across all environmental zones. These sites match the general pattern of the Archaic with mostly ephemeral occupation of highly mobile peoples reliant on the Uwharrie rhyolites for tool stone. These sites include residential camps involving at least small nuclear family units. Finally there is some evidence of differentiated settlement with unique concentrations of activity along watershed divides (in other words upland flats) with one locally known as the "Indian trail" (Moore and Irwin 2013:172). More than 75 percent of the Early Archaic stone points were of material from Slate Belt (Carolina terrane) stone with quarries more than 70 km away; the rest of assemblage was made up of locally available quartz materials (Moore and Irwin 2013:174). Moore and Irwin posit that bands of the Early Archaic utilized upland corridors for mobility between subsistence resourcefocused sites in the sand hills and stone quarry sites in the Piedmont. They test this hypothesis with a GIS least-cost path analysis of inter-riverine mobility from two sites at Fort Bragg, 31HK23 and 31HK118, that represent possible upland base camps and the quarry sites near Morrow Mountain (Moore and Irwin 2013:175). They confirm that the upland corridor known as the "Indian trial" and Yadkin Road mirrors the least-cost path, factoring slope and stream costs, for most of the way as it approaches the quarry sites in the west. Moore and Irwin conclude that drainage divides and upland trails deeply impacted "the geographic and environmental structure of mobility along the South Atlantic slope by providing important corridors for access to spatially heterogeneous resources, facilitating exchange and allowing for band aggregations" (2013:188). If upland areas served as the highways of the Early Archaic, then aggregation sites should be located where these upland corridors merge and may be indicative of band boundaries.

Anderson and Hanson's (1988:239) model postulates that the only time cross-drainage mobility would take place for aggregation events that were motivated by social as well as economic reasons. These events would take place near the Fall Line that divides the Piedmont and the Coastal Plain. The Fall Line's proximity to the resources of both provinces make it a favored ecological choice for aggregations as it would be capable of supporting more than one band at least for a short period of time. Daniel (2001:258) hypothesizes that one method of recognizing aggregation sites in the archaeological record is through a pattern of greater diversity in stone types from different distinct sources and directions as compared to surrounding assemblages in the region. A congregation of disparate groups would increase the deposition and diversity of stone items found at a site rather than single bands at dispersed sites. Daniel references the Taylor site located in the Upper Congaree River valley near the Fall Line in South Carolina as a possible example of an aggregation site. Specifically, he claims that this site represents an aggregation between groups form the Uwharrie and Allendale regions and that his settlement model explains the Taylor site function better than Anderson and Hanson's model. He supports this claim by indicating that the Taylor Site is located about equidistant between the Uwharrie and Allendale stone sources and that the point assemblage had equal frequencies of chert and metavolcanic Palmer Corner Notched points. Daniel (2001:259) stipulates that this pattern may be more apparent than real and that it would need to be investigated by "further work in other river basins aimed at detecting Early Archaic components at Fall Line locations".

Site 31WA1997&1997** is such a site that could provide information on a potentially Early Archaic aggregation site. Its location near the Fall Line, on top of a large upland flat, and just meters away from Juniper Branch, which eventually feeds into the Neuse River, makes it a prime candidate as an aggregation site during the Early Archaic period. The Early Archaic component is defined by the buried deposits with Palmer Corner Notched points, which is very rare for the edge of the Piedmont in North Carolina. This site could help refine the settlement models for the Early Archaic by providing another example of a stratified Early Archaic site along the Fall Line that could either support, revise, or refute the three settlement models discussed above. It also provides additional data as a possible aggregation site with stratified deposits that could aid in the recognition of patterns for locating similar sites within the region. This site's location along the Neuse River drainage also provides information on a lesser known region of the Piedmont near the Coastal Plain that could be compared to drainages like the Yadkin-Pee Dee and Savannah that have had more work. The only other well-documented site with a similar context as 31WA1997&1997** is the Thorpe site along the Fall Line near Rocky Mount (Phelps 1980). While a few Early Archaic points were recovered from this site, none of them were found in intact buried deposits like those at 31WA1997&1997**.

The Middle Woodland Yadkin ceramic series was principally defined by stratified deposits at the Doerschuk site by Joffre Coe (1964). These ceramics are only typologically different from the Early Woodland Badin ceramic series as both types were found within the same zone and differences in typology have not been stratigraphically verified with respect to chronology. Yadkin phase sites seem to be particularly frequent in the southern Piedmont and South Carolina Coastal Plain (Ward and Davis 1999:85). The Whites Creek Survey in Marlboro County, South Carolina, just across the North Carolina border and near the Fall Line in the Sandhills region located a total of 67 sites with 27 of them recovering Yadkin-like ceramics. The ceramic-bearing sites all had similar topographic settings, favoring toe ridges that were normally bounded on three sides by low, poorly drained, swampy land (Ward and Davis 1999:95), just like the portion of 31WA1997&1997** with the buried Middle Woodland and Early Archaic deposits. This location would facilitate exploitation of the rich and diverse environment of the surrounding swamp and creek as well as the resources in the pine-hardwood forest covering the adjacent upland flats. Unfortunately, the Whites Creek Survey only recovered artifacts from the surface. A site with buried Yadkin series ceramic deposits in a similar environment and topographic and geographic position, like 31WA1997&1997**, could answer questions about the chronological position of the Yadkin phase with respect to the Early and Middle Woodland sequence and also regarding changes in settlement and subsistence strategies in the earlier part of the Woodland period.

Herbert's (2011:8-9) review of Woodland period research on the North Carolina Coastal Plain briefly mentions the Yadkin series ceramic tradition but comments that it is not normally considered a Coastal Plain series and is more common in the Eastern Piedmont and the Sandhills region. He considers this paucity of Yadkin series during the Early and Middle Woodland on the Coastal Plain to represent a cultural boundary at the Sandhills. He does not include a map of the geographic distribution for the Yadkin series across the Coastal Plain like he does for the other series he reviews. It should be noted that these maps include Wake and Johnston Counties. Site 31WA1997&1997** and its stratified deposits with a Yadkin occupation may provide an opportunity to expand our current understanding of Middle Woodland period occupation near the



Figure 4.3-118: Small Savannah River Stemmed Point from 31WA1998 (Acc.# 2017.0072.01).

Fall Line and possibly of interaction of different groups from the Coastal Plain and the Piedmont. One other site from the current survey, 31WA2087, yielded Yadkin series ceramics as well as a possible representation of a Coastal Plain ceramic tradition, but this site has limited integrity. Nonetheless, it suggests that both sites were likely in an interaction sphere involving the two archaeological regions.

SITE NUMBER: 31WA1998

SITE TYPE: Native American isolated find: Late Archaic

SOIL TYPE: Wagram-Troup sands, 0 to 4 percent slopes

SITE SIZE: 19 x 15 m (63 x 50 ft)

SELECTED ARTIFACTS: metavolcanic Savannah River point

COMMENTS: A metavolcanic Small Savannah River stemmed point (Figure 4.3-118) with a broken tip was recovered while shovel testing on a grassy gentle side slope of an upland flat located on the eastern side of Segment P. This artifact derived from Zone 1 of a positive shovel test. Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material.

RECOMMENDATIONS: This artifact lacks sufficient context for further interpretation and is unlikely to provide additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA1999

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 15 x 14 m (50 x 45 ft)

SELECTED ARTIFACTS: quartz interior flake

COMMENTS: A single quartz interior flake was recovered during shovel testing northwest of Site 31WA1998 in a sparse pine forest situated on a gentle side slope of an upland in the eastern portion of Segment P. The flake was derived from Zone 1 of a positive shovel test. Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material. **RECOMMENDATIONS:** This artifact lacks sufficient context for further interpretation and is unlikely to provide additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

Segment O (STIP R-2828) Length 2,121.35 m (6,959.82 ft) 69.12 ha (170.79 acres) Area Total Previously Surveyed Area (Eroded and Non-Eroded Soils) **Eroded Soils** Total Area with Pedestrian Reconnaissance Only 12.33 ha (30.47 acres) Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental) Total Area with Pedestrian Transects (10-m/39-ft Interval) Access Denied Non-Eroded Soils Total Area Shovel Tested at 30-m (98-ft) Interval 13.37 ha (33.03 acres) Total Area Shovel Tested with Judgmental Test Placement

 Table 4.3-55:
 Segment Q Survey Summary.

Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	5.04 ha (12.45 acres)
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	1.09 ha (2.7 acres)
Total Area Disturbed / Sloped / Low and Wet	37.29 ha (92.14 acres)
Total # of Shovel Tests	215
Total # Sites Documented	4
Total # Isolated Finds Documented	4

Segment Q, which is 2,121.35 m (6,959.82 ft), begins at Sauls Road in the west and extends to Jordan Road in the east (see Figure 4.3-1b and 1c). Soils in Segment Q include those of the Wagram, Norfolk, Wehadkee, Bibb, and Appling series. The most extensive soil unit in the segment is Wagram loamy sand, 0 to 6 percent slopes. Wagram soils are classified as somewhat excessively drained. Norfolk and Appling soils are classified as well-drained, and Wehadkee and Bibb soils are classified as poorly drained. At the time of the survey, the ground cover in Segment Q consisted of woods, agricultural fields (some with visibility so low as to require shovel testing) and other open areas, residential lots, and disturbed areas. There are five ponds within the segment, encompassing a total of 1.93 ha (4.76 acres). The largest pond is divided into two basins by a driveway extending east off of Sauls Road. Most of these ponds are likely artificial. Two creeks cut through the segment. The eastern one is named Guffy Branch and the western one is unnamed. Where visibility permitted, cultivated fields were subject to surface survey at 10-m (33-ft) intervals. Moderately eroded, wet, and poorly drained areas were visually inspected at 30-m (98-ft) intervals. The remainder of the segment was shovel tested at 30-m (98ft) intervals, where possible. Survey resulted in the identification of four archaeological sites and four isolated finds in Segment Q (Figures 4.3-2b). Four of these sites are clustered around the larger, two-basined pond at the western end of the segment. One non-eroded area (2.7 acres) was not surveyed because the landowner of a private residence denied access to their property (see Figure 4.3-1b).

SITE NUMBER: 31WA2000

SITE TYPE: Native American lithic scatter: Middle Archaic to Middle Woodland *SOIL TYPE:* Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 95 x 35 m (313 x 116 ft)

SELECTED ARTIFACTS: metavolcanic Morrow Mountain II Stemmed point, quartz possible Yadkin Large Triangular point, metavolcanic biface, quartzite biface, metavolcanic retouched flake, aphyric rhyolite bifacial thinning flake, metavolcanic bifacial thinning flakes, plagioclase porphyritic rhyolite bifacial thinning flakes, plagioclase-quartz porphyritic rhyolite bifacial thinning flake, quartz porphyritic rhyolite bifacial thinning flake, aphyric rhyolite interior flake, chert interior flake, metavolcanic interior flakes, plagioclase porphyritic rhyolite interior flakes, quartz interior flakes

COMMENTS: This lithic scatter was identified while shovel testing in an agricultural field with poor surface visibility situated on a large upland flat just east of Sauls Road (Figure 4.3-119 and 4.3-120). The site assemblage (n=86) was recovered from the ground surface, shovel tests, and test units. More than half of the cultural materials collected were encountered on the surface. The most notable artifacts recovered from the surface and also from shovel tests include points and bifaces which are composed of chert, plagioclase-quartz porphyritic rhyolite,



Figure 4.3-119: Map of Site 31WA2000. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-120: View of Site 31WA2000, Looking East.



Figure 4.3-121: Points from 31WA2000: a) Yadkin Large Triangular Eared Variety (Acc.# 2017.0074.02); b) Morrow Mountain II Stemmed (Acc.# 2017.0074.05).



Figure 4.3-122: Site 31WA2000, Test Unit 1, Sketch of North Profile.



Figure 4.3-123: 31WA2000, Test Unit 1, Photograph of North Profile.



Figure 4.3-124: Site 31WA2000, Test Unit 2, Sketch of East Profile.



Figure 4.3-125: 31WA2000, Test Unit 2, Photograph of East Profile.

plagioclase porphyritic rhyolite, metavolcanic and quartz. The diagnostic points included a Morrow Mountain II Stemmed point located in the plow zone in Shovel Test 1, and a possible Yadkin Large Triangular point recovered from the ground surface (Figure 4.3-121). Yadkin points are considered diagnostic of the Yadkin phase and generally date to the Middle Woodland period and possibly the Early Woodland period (Ward and Davis 1999:83-85) and Morrow Mountain II Stemmed point type dates to the Middle Archaic period (Ward and Davis 1999:58-63).

Seven positive shovel tests were recorded at the site. The typical soil profile of the site contains three zones: Zone 1, a brown (10YR 4/3) sandy loam plow zone approximately 40 cm in thickness; Zone 2, a yellowish brown (10YR 5/4) sandy E-horizon approximately 13 cm in thickness; and Zone 3, a brownish yellow (10YR 6/8) sandy clay subsoil. All three zones had some evidence of bioturbation from roots. Shovel Tests 1 and 5 contained modern glass in the plow zone that was not collected.

IN DEPTH EVALUATION: Two 1-x-1-m test units were excavated at the site due to the moderate density of artifacts and the presence of diagnostic lithic points. No features or intact buried deposits were found. There were plow scars present at the top of Zone 2 in both units.

Test Unit 1 was excavated between Shovel Tests 1 and 4 since artifacts were located within Zone 2 of these shovel tests. The artifacts recovered in the unit are summarized in Table 4.3-56. Excavation revealed a three-zone profile for the unit: Zone 1, a light olive brown (2.5Y 5/4) sandy loam plow zone 13 cm in thickness; Zone 2, a light yellowish brown (2.5Y 6/4) sandy E-horizon 12 cm in thickness; and Zone 3, a strong brown (7.5YR 5/8) sandy clay lower subsoil. Test Unit 1 had no features, and the only sign of disturbance appeared to be from bioturbation and plowing (Figures 4.3-122 and 4.3-123).

Test Unit 2 was placed between Shovel Tests 6 and 22 as these tests yielded the highest counts of artifacts at the site. Test Unit 2 contained only two metavolcanic interior flakes from the plow zone, and a quartz flake from Zone 2. The soil profile of the unit contained three zones: Zone 1, a brown (10YR 5/3) sandy loam plow zone 22 cm in thickness; Zone 2, a yellowish brown (10YR 5/6) sandy loam E-horizon 25 cm in thickness; Zone 3, a brownish yellow (10YR 6/8) sandy clay subsoil (Figures 4.3-124 and 4.3-125).

Object	Zone/Level	Count	Percentage in Test Unit
Aphyric Rhyolite Bifacial Thinning Flake	1/1	1	3.85%
Metavolcanic Bifacial Thinning Flake	1/1	1	3.85%
Metavolcanic Interior Flake	1/1	1	3.85%
Quartz Interior Flake	1/1	3	11.54%
Metavolcanic Retouched Flake	1/2	1	3.85%
Aphyric Rhyolite Interior Flake	1/2	1	3.85%
Metavolcanic Interior Flake	1/2	6	23.08%
Quartz Interior Flake	1/2	5	19.23%
Metavolcanic Bifacial Thinning Flake	1/3	2	7.69%

Table 4.3-56: Summary of Artifacts Recovered from Test Unit 1 at 31WA2000, by Zone and Level.

Plagioclase Porphyritic Rhyolite Bifacial Thinning Flake	1/3	1	3.85%
Quartz Porphyritic Rhyolite Bifacial Thinning Flake	1/3	1	3.85%
Metavolcanic Interior Flake	1/3	1	3.85%
Quartz Interior Flake	1/3	2	7.69%
Total		26	100.00%

The site assemblage is summarized in Table 4.3-57. Site 31WA2000 may have once been larger before the construction of a pond southeast of the site. Two isolated finds (31WA2001 and 31WA2002) were recorded on the opposite side of the pond (eastern edge), and a site (31WA2003) was recorded farther south on the western edge of the pond. The area beneath the water may have been the middle portion that would have tied all these sites into a single site.

Table 4.3-57: Summary of Artifacts Recovered from 31WA2000.

Object	Count
Metavolcanic Morrow Mountain II Stemmed Point	1
Quartz Possible Yadkin Triangular Point	1
Metavolcanic Biface	1
Quartzite Biface	1
Metavolcanic Biface Fragment	1
Metavolcanic Retouched Flake	1
Aphyric Rhyolite Bifacical Thinning Flake	1
Metavolcanic Bifacial Thinning Flake	11
Plagioclase Porphyritic Rhyolite Bifacial Thinning Flake	2
Plagioclase-Quartz Porphyritic Rhyolite Bifacial Thinning Flake	1
Quartz Porphyritic Rhyolite Bifacial Thinning Flake	1
Aphyric Rhyolite Interior Flake	1
Chert Interior Flake	1
Metavolcanic Interior Flake	22
Plagioclase Porphyritic Rhyolite Interior Flake	2
Quartz Interior Flake	35
Metavolcanic Flake Fragment	3
Total	86

RECOMMENDATIONS: Due to extensive plowing, this investigated site area appears to lack intact subsurface deposits and contains mixed components from the Middle Archaic and Woodland periods. Chiarulli et al. (2001) have conducted analysis of survey in upland settings and conclude that most common research questions must rely on information from datable contexts or where lithic materials possess solid temporal correlations. They do not dismiss the need for upland surveys and consider all lithic scatters worthless, but define sites with research potential as having components with sufficient patterning to provide datable contexts in relation to site function and occupation span (Chiarulli et al. 2001:4-8, 5-5). 31WA2000 lacks these qualities and would not provide additional information on precontact inhabitants of the Piedmont region of North Carolina. This site is recommended not eligible for NRHP under Criteria A, B, C, and D.

SITE NUMBER: 31WA2001

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 16 x 15 m (53 x 48 ft)

SELECTED ARTIFACTS: aphyric rhyolite interior flake

COMMENTS: A single aphyric rhyolite interior flake was recovered while shovel testing in a fallow field covered with brush and scrub trees situated on an upland flat area. This artifact derived from Zone 1 of a positive shovel test. Radial shovel tests at 15-m intervals were excavated to the south and west, yet only one radial shovel test could be excavated to the east due to a modern driveway and residential landscaping. The same driveway and residential landscaping that limited radial shovel testing to the east also precluded radial shovel testing to the north. These test yielded no additional artifacts.

RECOMMENDATIONS: This isolate lacks sufficient context for further interpretation and is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolate is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2002

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 17 x 12 m (56 x 40 ft)

SELECTED ARTIFACTS: quartz interior flake

COMMENTS: A single quartz interior flake was recovered while shovel testing in a fallow field covered with brush and scrub trees situated on an upland flat. This isolate was encountered approximately 70 m southwest of 31WA2001. The artifact was recovered from Zone 1 of a positive shovel test. Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material.

RECOMMENDATIONS: This artifact lacks sufficient context for further interpretation and the location is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2003

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Wagram-Troup sands, 0 to 4 percent slopes

SITE SIZE: 105 x 29 m (346 x 96 ft)

SELECTED ARTIFACTS: metavolcanic indeterminate stemmed point, metavolcanic bifacial thinning flakes, quartz bifacial thinning flakes, aphyric rhyolite interior flake, metavolcanic interior flakes, quartz interior flakes

COMMENTS: This lithic surface scatter was identified during the visual assessment of a recently plowed agricultural field with favorable surface visibility. The site is situated in an upland area adjacent to Sauls Road (Figures 4.3-126 and 4.3-127). The assemblage from the site (n=25) is summarized in Table 4.3-58. Judgmental shovel tests were excavated within the boundary of the surface scatter to investigate subsurface deposits. Only one of the tests excavated was positive: Shovel Test 1 yielded two metavolcanic bifacial thinning flakes (one from Zone 1, and one from Zone 2 of the test). The soil profile at the site contains three zones:



Figure 4.3-126: Map of Site 31WA2003. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-127: View of Site 31WA2003, Looking East.

Zone 1, a brown (10YR 4/3) loamy sand plow zone approximately 25 cm in thickness; Zone 2, a yellowish brown (10YR 5/6) sandy E-horizon approximately 60 cm in thickness; Zone 3, a yellowish brown (10YR 5/8) sandy clay subsoil.

Object	Count
Metavolcanic Indeterminate Stemmed Point	1
Metavolcanic Bifacial Thinning Flake	5
Quartz Bifacial Thinning Flake	2
Aphyric Rhyolite Interior Flake	1
Metavolcanic Interior Flake	2
Quartz Interior Flake	14
Total	25

Table 4.3-58:	Summary of A	rtifacts Recovered	from 31WA2003.
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RECOMMENDATIONS: Given the low artifact density and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on precontact inhabitants of the Piedmont region of North Carolina. This site is recommended not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2004

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Norfolk loamy sand, 2 to 6 percent slopes

SITE SIZE: 51 x 14 m (166 x 48 ft)

SELECTED ARTIFACTS: metavolcanic bifacial thinning flake, quartz interior flake **COMMENTS:** This isolated find was recovered when shovel testing a grassy area situated on a gentle side slope of an upland located on the eastern side of Segment Q. Two artifacts were recovered from Zone 1 of two respective positive shovel tests. Shovel Test 1 yielded a metavolcanic bifacial thinning flake, and Shovel Test 5 yielded a quartz interior flake. Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material. **RECOMMENDATIONS:** This pair of artifacts lack sufficient context for further interpretation and are unlikely to provide additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2005

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Norfolk loamy sand, 2 to 6 percent slopes

SITE SIZE: 34 x 28 m (110 x 93 ft)

SELECTED ARTIFACTS: metavolcanic indeterminate point, aphyric rhyolite biface, metavolcanic bifacial thinning flakes, metavolcanic interior flakes, quartz interior flake **COMMENTS:** This site was encountered during the visual assessment of an agricultural field with favorable surface visibility situated on gentle side slope of an upland, just south of 31WA2004 (Figure 4.3-128 and Figure 4.3-129). The site assemblage (n=8) derived primarily from the ground surface, but a positive judgmental shovel test excavated within the boundary of the surface scatter yielded two metavolcanic interior flakes from the plow zone of the test. The soil profile of the site contains three zones: Zone 1, a yellowish brown (10YR 5/4) sandy loam


Figure 4.3-128: Map of Site 31WA2005. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-129: View of Site 31WA2005, Looking East.



Figure 4.3-130: Map of Site 31WA2006. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-131: View of Site 31WA2006&2006**, Looking South.

plow zone 18 cm in thickness; Zone 2, a brownish yellow (10YR 6/6) sandy loam E-horizon 41 cm in thickness; Zone 3, a reddish yellow (7.5YR 6/8) sandy clay subsoil. The surface-collected artifacts include an indeterminate metavolcanic point fragment with alternate beveling, an aphyric rhyolite biface, two metavolcanic bifacial thinning flakes, a metavolcanic interior flake, and a quartz interior flake.

RECOMMENDATIONS: Given the low artifact density, lack of diagnostic artifacts, and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Piedmont region of North Carolina and does not appear eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2006&2006**

SITE TYPE: Native American isolated find: unattributed; Historic scatter: late eighteenth century to early twentieth century

SOIL TYPE: Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 91 x 68 m (298 x 223 ft)

SELECTED ARTIFACTS: quartz interior flake biface fragment, plagioclase porphyritic rhyolite interior flake, transfer printed pearlware, white granite (ironstone), buff- and gray-bodied stoneware (North American), solarized/manganese dioxide decolorized (amethyst) container glass

COMMENTS: This multicomponent surface scatter was encountered during the visual assessment of a previously plowed fallow corn field with favorable surface visibility situated on an upland flat in the center of segment Q (Figure 4.3-130 and Figure 4.3-131). The site assemblage (n=9) derived from the ground surface and is summarized in Table 4.3-59. The artifacts recovered include a white granite (ironstone) fragment, a transfer-printed pearlware fragment, two buff-bodied stoneware (North America) fragments, a gray-bodied stoneware (North America) fragment, a piece of solarized/ manganese dioxide decolorized (amethyst) container glass, a quartz biface fragment, a plagioclase porphyritic rhyolite bifacial thinning flake, and a quartz interior flake. Transfer-printed pearlware production dates range from 1784 to 1840 (FMNH 2017). White granite (ironstone) production dates range from the 1830s to the early twentieth century (JPPM 2017). Solarized/ manganese dioxide decolorized (amethyst) container glass was in production from the 1820s to the 1930s (Lindsey 2017). Judgmental shovel tests excavated at the site were negative. The typical soil profile of the site contains three zones: Zone 1, a brown (10YR 5/3) sandy loam plow zone approximately 30 cm in thickness; Zone 2, a yellow (2.5Y 7/6) sandy loam E-horizon approximately 28 cm in thickness; and Zone 3, a strong brown (7.5YR 5/8) sandy clay subsoil.

RECOMMENDATIONS: Given the low artifact density, lack of diagnostic artifacts, and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants or historic settlements within the Piedmont region of North Carolina and does not appear eligible for the NRHP under Criteria A, B, C, and D.

Table 4.3-59: Summary of Artifacts Recovered from 31WA2006&2006**.

Object	Count
Quartz Biface Fragment	1
Plagioclase Porphyritic Rhyolite Bifacial Thinning Flake	1

Quartz Interior Flake	1
Pearlware	1
White Granite (Ironstone)	1
Stoneware (North American)	3
Amethyst Container Glass	1
Total	9

SITE NUMBER: 31WA2007

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 47 x 43 m (154 x 13 ft)

SELECTED ARTIFACTS: metavolcanic interior flakes

COMMENTS: Two metavolcanic interior flakes were recovered during shovel testing in a grassy pasture and an adjacent mixed secondary forest situated on an upland flat at the center Segment Q. The two artifacts derive from two respective shovel tests. A flake was located in Zone 2 of Shovel Test 1, and another was recovered from Zone 1 of Shovel Test 9. Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material. **RECOMMENDATIONS:** This pair of artifacts lacks sufficient context for further interpretation and the location is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

Segment R (STIP R-2828)	
Length	1,467.00 m (4,813.00 ft)
Area	54.81 ha (135.44 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	8.38 ha (20.71 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	
Total Area with Pedestrian Transects (10-m/39-ft Interval)	.39 ha (.96 acres)
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	18.57 ha (45.88 acres)
Total Area Shovel Tested with Judgmental Test Placement	2.72 ha (6.73 acres)
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	3.99 ha (9.87 acres)
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	20.76 ha (51.29 acres)
Total # of Shovel Tests	266
Total # Sites Documented	2
Total # Isolated Finds Documented	1

Table 4.3-60:Segment R Survey Summary.

Segment R is 1,467.00 m (4,813.00 ft) long and extends from Jordan Road in the west to NC 50/Benson Road in the east (see Figure 4.3-1c). The segment extends north and south along NC 50/Benson Road for a total distance of 1,341 m (4,400 ft). One previously recorded site, site 31WA1187, overlaps the very southern end of southern extension along Benson Road. Over half of Segment R harbors Norfolk loamy sand and the most extensive soil unit in the segment is Norfolk loamy sand, 2 to 6 percent slopes. Appling, Wehadkee and Bibb, and other soils are also present. Norfolk and Appling soils are classified as well-drained and Wehadkee and Bibb are classified as somewhat excessively drained. A substantial portion of Segment R was not coded as eroded or wet/poorly drained. A creek flowing into Buffalo Creek cuts through the segment. The western slope of this creek valley was steep, but the remainder of the segment was quite level. Two ponds overlap Segment R, covering an area of approximately 0.73 ha (1.80 acres). At the time of the survey, ground cover in segment R consisted of agricultural fields, woods, wetlands, modern housing developments, and individual residential lots. Much of the agricultural land, especially in the east half of the segment, was fallow and ground surface visibility was too low to permit surface survey. A demolished house or farmstead was noted in the middle of the open area at the eastern end of the segment. Where visibility was higher in the fields nearest Jordan Road, surface survey was conducted at 10-m (33-ft) intervals. All other areas not coded as eroded or poorly drained were subject to shovel testing at 30-m (98-ft) intervals. Areas directly around houses were avoided because of the likelihood for buried utilities and disturbance. Visual inspection at 30-m (98-ft) intervals was conducted in eroded and poorly drained portions of the segment. Survey resulted in the identification of two archaeological sites and one isolated find in Segment R (see Figure 4.3-2c). Local residents reported finding projectile points in the field where site 31WA2009 was identified. The location of site 31WA1187 was found to be disturbed by a recent housing development and no cultural material associated with this site was identified.

SITE NUMBER: 31WA2008&2008**

SITE TYPE: Native American lithic scatter: Middle to Late Archaic; Historic isolated find: nineteenth to twentieth century

SOIL TYPE: Norfolk loamy sand, 2 to 6 percent slopes

SITE SIZE: 223 x 196 m (731 x 644 ft)

SELECTED ARTIFACTS: aphyric rhyolite Morrow Mountain II Stemmed point, plagioclase porphyritic rhyolite Savannah River Stemmed point, plagioclase-quartz porphyritic rhyolite indeterminate point tip, quartz indeterminate point tip, metavolcanic biface, quartz retouched flakes, metavolcanic bifacial thinning flakes, quartz bifacial thinning flakes, aphyric rhyolite interior flakes, metavolcanic interior flakes, plagioclase porphyritic rhyolite interior flake, plagioclase-quartz porphyritic rhyolite interior flake, quartz interior flakes, quartz bifacial thinning flakes, quartz interior flakes, quart

solarized/manganese dioxide decolorized finial, opaque white "milk glass" container glass *COMMENTS:* This multicomponent scatter is situated on top of a wide upland flat just east of Jordan Road. It was encountered during the visual assessment of two agricultural fields containing favorable surface visibility that are separated by a farm road (Figure 4.3-132 and 4.3-133). Residential lawns, gardens, and buildings flank the eastern and western edges of the site. The site assemblage (n=87) was encountered mostly in the field south of the farm road (65 lithics and 2 historic items derived from this area). A small cluster of artifacts was also located in the field north of the farm road (seven lithic artifacts and one historic item). Three judgmental

shovel tests were excavated at the site, but all were negative. These test revealed a three-zone soil profile at this site: Zone 1, a yellowish brown (10YR 5/4) sandy plow zone approximately 25 cm in thickness; Zone 2, a brownish yellow (10YR 6/6) sandy E-horizon approximately 10 cm in thickness; and Zone 3, a yellowish brown (10YR 5/8) sandy clay subsoil.

IN DEPTH EVALUATION: Based on the moderate density of artifacts and the location of a few diagnostic points that were recovered from a promising-looking landform, two additional transects of shovel tests were excavated at 15-m intervals (one bisecting the northern cluster of artifacts and one the southern on an east-west axis). Only two of thirteen additional shovel tests yielded artifacts (five lithics items and a piece of historic "milk glass"). Additionally, two 1-x-1-m test units were excavated in the southern of the two fields comprising the site.

Test Unit 1 was excavated in the highest concentration of artifacts found on the surface. The unit contained two metavolcanic bifacial thinning flakes, two metavolcanic interior flakes, and a quartz interior flake. Excavation of the unit revealed a three-zone soil profile: Zone 1, a light olive brown (2.5Y 5/4) sandy plow zone 30 cm in thickness; Zone 2, a light yellowish brown (2.5Y 6/4) sandy E-horizon 22 cm in thickness; and Zone 3, a brownish yellow (10YR 6/8) sandy clay lower subsoil. Test Unit 1 did not contain features, and the only sign of disturbance appeared to be from bioturbation and plowing (Figures 4.3-134 and 4.3-135).

Test Unit 2 was excavated within the second highest concentration of surface finds. The only item recorded from the unit was a piece of modern colorless glass (it was not collected) which was located in the plow zone of the unit. Excavation of the unit revealed a three-zone soil profile: Zone 1, a brown (10YR 5/3) sandy loam plow zone 30 cm in thickness; Zone 2, a light yellowish brown (10YR 6/4) sandy transition 8 cm in thickness; and Zone 3, a yellowish brown (10YR 5/4) clay subsoil (Figure 4.3-135 and 4.3-137). No artifacts were recovered from this unit.

The site assemblage (n=87) is summarized in Table 4.3-61. The most notable artifacts recovered from the site derive from the surface. These items include an aphyric rhyolite Morrow Mountain II Stemmed, a plagioclase porphyritic rhyolite Savannah River Stemmed (Figure 4.3-138), a plagioclase-quartz porphyritic rhyolite indeterminate point tip, a quartz indeterminate point tip, an indeterminate metavolcanic biface, three quartz retouched flakes, three quartz bifacial thinning flakes, and two metavolcanic bifacial thinning flakes. Savannah River points date to the Late Archaic period (Coe 1964:44-45). Morrow Mountain II points date to the Middle Archaic period (Ward and Davis 1999:58-63). The historic component of the site includes a solarized/manganese dioxide decolorized (light amethyst) glass finial, three fragments of undecorated whiteware, and a piece of opaque white "milk glass". Undecorated whiteware was in production from 1830 to the present (Miller et al. 2000). Solarized/manganese dioxide decolorized finial glass was in production from 1870s to the mid-twentieth century (Lindsey 2017).

Table 4.5 01. Summary of Anthaets Recovered from 51 WA2000@2000		
Object	Count	
Aphyric Rhyolite Morrow Mountain II Stemmed Point		
Plagioclase Porphyritic Rhyolite Savannah River Stemmed Point		

1 1 1

1

Table 4.3-61: Summary of Artifacts Recovered from 31WA2008&2008**.

Plagioclase-Quartz Porphyritic Rhyolite Indeterminate Point Tip

Quartz Indeterminate Point Tip



Figure 4.3-132: Map of Site 31WA2008&2008**. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-133: View of Site 31WA2008&2008**, Looking West.



Figure 4.3-134: Site 31WA2008&2008**, Test Unit 1, Sketch of North Profile.



Figure 4.3-135: 31WA2008&2008**, Test Unit 1, Photograph of North Profile.

	Ground Surface	31WA2008&2008** Test Unit 2 East Profile
Zone 1	Key:	Distinct Boundary
		Unexcavated
Zone 2	Centime	eters
Zone 3	Inches	10 20
	0	5 10
Zone 1 – 10YR 5/3 Brown Sandy Loam (Plow Zone) Zone 2 – 10YR 6/4 Light Yellowish Brown Sand (Transitional Zone) Zone 3 – 10YR 5/4 Yellowish Brown Clay (Subsoil)		

Figure 4.3-136: Site 31WA2008&2008**, Test Unit 2, Sketch of East Profile.



Figure 4.3-137: 31WA2008&2008**, Test Unit 2, Photograph of East Profile.



Figure 4.3-138: Points from 31WA2008&2008**: a) Savannah River Stemmed (Acc.# 2017.0082.01); b) Morrow Mountain II Stemmed (Acc.# 2017.0082.01).

Metavolcanic Indeterminate Biface	1
Quartz Retouched Flake	3
Metavolcanic Bifacial Thinning Flake	4
Quartz Bifacial Thinning Flake	3
Aphyric Rhyolite Interior Flake	7
Metavolcanic Interior Flake	7
Plagioclase Porphyritic Rhyolite Interior Flake	1
Plagioclase-Quartz Porphyritic Rhyolite Interior Flake	1
Quartz Interior Flake	45
Quartzite Interior Flake	1
Rhyolitic Breccia Interior Flake	1
Quartz Shatter	4
Whiteware	3
Whiteware Light Amethyst Glass Finial	3
Whiteware Light Amethyst Glass Finial Opaque White "Milk Glass" Container Glass	3 1 1

RECOMMENDATIONS: This site has been heavily impacted by plowing, which accounts for how dispersed the artifacts are and the mixing of the components. All of the points, both diagnostic and indeterminate, were recovered from the ground surface. As previously discussed for similar sites, Chiarulli et al. (2001) have analyzed issues surrounding surveys in upland settings and conclude that most common research questions must rely on information from datable contexts or where lithic materials possess solid temporal correlations, which is seldom recovered from such surveys. They do not dismiss the need for upland surveys, stressing that all lithic scatters are not worthless, but define sites with research potential as having components with sufficient patterning to provide datable contexts in relation to site function and occupation span (Chiarulli et al. 2001:4-8, 5-5). Given the absence of evidence for intact subsurface deposits and datable contexts at 31WA2008&2008**, the site appears to lack the potential to provide additional information on precontact and historic inhabitants of the Piedmont region of North Carolina. This site is recommended not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2009&2009**

SITE TYPE: Native American lithic scatter: Middle Woodland; Historic isolated find: unattributed

SOIL TYPE: Norfolk loamy sand, 2 to 6 percent slopes

SITE SIZE: 189 x 49 m (619 x 160 ft)

SELECTED ARTIFACTS: Native American Yadkin series ceramic, metavolcanic bifacial thinning flake, aphyric rhyolite interior flakes, metavolcanic interior flakes, quartz interior flakes, quartz shatter, aqua container glass

COMMENTS: This narrow multicomponent scatter was encountered while shovel testing in a large fallow field. It is directly to the east of 31WA2008 on a lower portion of the same landform and partly down a ridge toe along the tree line (Figure 4.3-139 and 4.3-140). The artifact assemblage (n=42) was recovered from the surface of the site, shovel tests, and test units. Shovel testing revealed a three-zone soil profile at the site: Zone 1, a light yellowish brown



Figure 4.3-139: Map of Site 31WA2009. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-140: View of Site 31WA2009&2009**, Looking East.



Figure 4.3-141: Site 31WA2009&2009**, Test Unit 1, Sketch of West Profile.



Figure 4.3-142: 31WA2009&2009**, Test Unit 1, Photograph of West Profile.

(10YR 6/4) sandy loam plow zone approximately 15 cm in thickness; Zone 2, a light brownish gray (10YR 6/2) sandy loam sand E-horizon approximately 16 cm in thickness; and Zone 3, a light gray (10YR 7/2) sandy clay. All three zones had some evidence of bioturbation from roots. *IN DEPTH EVALUATION:* Two adjacent 1-x-1-m test units were excavated to investigate a possible feature suggested by dark fill beneath the plow zone, as seen in Shovel Test 7 at the eastern most portion of the site.

Test Unit 1 yielded six quartz interior flakes. Excavation of the unit revealed a three-zone profile: Zone 1, a brown (10YR 5/3) sandy plow zone 20 cm in thickness; Zone 2, a light yellowish brown (2.5Y 6/4) sandy E-horizon 12 cm in thickness; Zone 3, a pale yellow (2.5Y 7/4) sand mottled with brownish yellow (10YR 6/6) sand and very dark brown (10YR 2/2) sand (refer to Figures 4.3-141 and 4.3-142). Test Unit 1 did not contain features and the dark feature-like stain revealed in Shovel Test 7, was revealed to be a tree stump disturbance covering the entire southeast corner of the unit. The unit exhibited the pattern of decreasing artifact density with each level excavated, with Zone 1 having the highest concentration of artifacts.

Test Unit 2 was excavated adjacent to Test Unit 2, the east. The soil profile of unit is similar to Test Unit 1. Evidence for root and rodent disturbance was present throughout this unit, but the disturbance from the tree stump was much less prevalent. This unit was excavated to determine the extent of the stain in Test Unit 1.

Object	Zone/Level	Count	Percentage in Test
			Unit
Native American Yadkin Series Ceramic	1/1	1	5.00%
Metavolcanic Bifacial Thinning Flake	1/1	1	5.00%
Aphyric Rhyolite Interior Flake	1/1	1	5.00%
Quartz Interior Flake	1/1	13	65.00%
Quartz Shatter	1/1	1	5.00%
Aqua Container Glass	1/1	1	5.00%
Quartz Interior Flake	2/1	2	10.00%
Total		20	100.00%

Table 4.3-62: Summary of Artifacts Recovered from Test Unit 2 at 31WA2009&2009**, by Zone and Level.

The artifacts recovered were derived almost entirely from the plow zone (Zone 1) of the unit, with the exception of two quartz interior flakes recorded in Zone 2 of the test. The artifacts revered from the plow zone of the unit include a Native American ceramic sherd consistent with the Yadkin series (Figure 4.3-143), a metavolcanic bifacial thinning flake, an a aphyric rhyolite interior flake, 13 quartz interior flakes, quartz shatter and a piece of aqua container glass (Table 4.3-62). The Yadkin Series dates to the Middle Woodland, approximately 500 B.C. to A.D. 500 (Coe 1964:30-32; Ward and Davis 1999:86).

The site assemblage is summarized in Table 4.3-63. The types of debitage and the raw materials encountered are consistent throughout the site, suggesting that these deposits were from the same depositional event. The test units also mimic the results of the shovel tests with the majority of the artifacts coming recorded in the plow zone.



Figure 4.3-143: Yadkin Series Fabric Impressed Body Sherd from 31WA2009&2009** (Acc.# 2017.0083.09).

Object	Count
Native American Yadkin Series Ceramic	1
Metavolcanic Bifacial Thinning Flake	1
Aphyric Rhyolite Interior Flake	6
Metavolcanic Interior Flake	2
Quartz Interior Flake	29
Quartz Shatter	2
Aqua Container Glass	1
Total	42

Table 4.3-63: Summary of Artifacts Recovered from 31WA2009&2009**.

RECOMMENDATIONS: Due to the low density of artifacts recovered from the site, absence of buried intact deposits, and evidence of intensive plowing, site 31WA2009&2009** lacks the potential to provide additional information on precontact and historic inhabitants of the Piedmont region of North Carolina. This is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2010

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Norfolk loamy sand, 2 to 6 percent slopes

SITE SIZE: 18 x 16 m (60 x 52 ft)

SELECTED ARTIFACTS: metavolcanic interior flake

COMMENTS: A single metavolcanic interior flake was recovered while shovel testing in a fallow field with poor surface visibility situated on an upland flat at the east end of Segment R. The flake was recovered from Zone 1 of a positive shovel test. Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material.

RECOMMENDATIONS: The isolate lacks sufficient context for further interpretation and is unlikely to provide additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

Table 4.3-64:	Segment S	Survey Summa	ıry.
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Segment S (STIP R-2828)	
Length	1,891.17 m (6,204.64 ft)
Area	65.69 ha (162.43 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	20.97 ha (51.82 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	.71 ha (1.75 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	.04 ha (.20 acres)
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	10.95 ha (27.05 acres)
Total Area Shovel Tested with Judgmental Test Placement	2.14 ha (5.30 acres)
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	1.39 ha (3.43 acres)

Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	29.49 ha (72.88 acres)
Total # of Shovel Tests	199
Total # Sites Documented	1
Total # Isolated Finds Documented	1

Segment S, which is 1,891.17 m (6,204.64 ft) long, begins at NC 50/Benson Road and extends eastward to end at Swift Creek (see Figure 4.3-1c). The segment extends north and south along NC 50/Benson Road for a total distance of 1,341 m (4,400 ft). Previously recorded site 31WA1186 overlaps the southern extension of the segment along NC 50/Benson Road. Soils of over a dozen series are mapped within Segment S. The more prevalent series include Cecil, Appling, Wehadkee and Bibb occurring together, and Madison. The most extensive individual soil unit in Segment S is Cecil sandy loam, 10 to 15 percent slopes. Most of the soils present in the segment, including those of the Cecil, Appling, and Madison series, are classified as welldrained. Wehadkee and Bibb soils are classified as poorly drained. At the time of the survey, ground cover in Segment S consisted of woods, horse pasture, agricultural fields, river floodplain, recent housing development, and other residential lots. Much of the segment is in rugged terrain and this area is dissected by a complex network of branching creeks draining into Swift Creek. There is a high hill located towards the eastern end of the segment, beyond which the land slopes down to the flat floodplain adjacent to Swift Creek. One small pond is located near the horse pastures. The landscape adjacent to Swift Creek was very wet and contained many small oxbow lakes and side channels. The area had experienced some damage during Hurricane Matthew in October 2016. In addition to moderately eroded soils, areas coded as severely eroded are present near the western end of the segment. In the horse pastures at higher elevations, topsoil was observed to be thin, as reddish subsoil frequently was exposed at the ground surface. Relatively extensive areas of steep slope were coded around the high hill. Much of Segment S was subject to visual inspection at 30-m (98-ft) intervals. Surface survey, conducted at 10-m (33-ft) intervals, was only possible in the agricultural fields along NC 50/Benson Road. Visibility was too low elsewhere in the segment. The remainder of Segment S was shovel tested at 30-m (98-ft) intervals, where possible. Survey resulted in the identification of one archaeological site and an extension of 31WA1186&1186** in Segment S (see Figure 4.3-2c). Test units were excavated within the expansion of 31WA1186&1186** following the initial survey.

SITE NUMBER: 31WA1186&1186**

SITE TYPE: Native American lithic scatter: Early Archaic to Middle Woodland; Historic scatter: late eighteenth to mid-twentieth century

SOIL TYPE: Norfolk loamy sand, 2 to 6 percent slopes

SITE SIZE: 189 x 59 m (621 x 194 ft)

SELECTED ARTIFACTS: aphyric rhyolite Palmer Corner Notched point, quartz indeterminate side notched point, quartz indeterminate points, metavolcanic indeterminate point tips, metavolcanic bifaces, quartz bifaces, metavolcanic biface fragments, quartz biface fragments quartz porphyritic rhyolite biface fragment, metavolcanic retouched flakes, plagioclase porphyritic rhyolite retouched flake, quartz retouched flakes, aphyric rhyolite bifacial thinning flakes, metavolcanic bifacial thinning flakes, plagioclase porphyritic rhyolite bifacial thinning flakes, plagioclase porphyrite plagioclase porphyrite plagioclase porphyrite

flake, quartz bifacial thinning flakes, aphyric rhyolite interior flakes, metavolcanic interior flakes, plagioclase porphyritic rhyolite interior flakes, plagioclase-quartz porphyritic rhyolite interior flake, quartz interior flakes, quartz porphyritic rhyolite interior flakes, quartzite interior flakes, aphyric rhyolite pressure/retouch flake, quartz shatter, quartz core, schist multipurpose ground stone tool (abrader/anvil), edged pearlware, transfer printed pearlware, white granite (ironstone), edged whiteware, transfer-printed whiteware, Royal China/Currier & Ives whiteware, decal decorated/"decalcomania" whiteware, undecorated whiteware, fiestaware, porcelain figurine wheel fragment, annular ware, undecorated refined earthenware, buff and gray bodied stoneware (North America), Fire-King Jade-ite table glass, amber container glass, black amethyst container glass, cobalt blue container glass, colorless container glass, colorless window glass, glass marble, copper gear/sprocket?, sterling silver spoon, plaster, glazed brick **COMMENTS:** This previously recorded site represents a multicomponent Native American lithic scatter and a smaller historic scatter situated on an upland flat on the eastern edge of Benson Road, about 30 m northwest of an intermittent drainage head. During the current project survey, the site was relocated via the visual assessment of an agricultural field with favorable surface visibility (Figure 4.3-144 and 4.3-145). The site assemblage recovered during the current survey (n=646) was collected from the ground surface, a judgmental shovel test, and test units (Table 4.3-65). The judgmental shovel test yielded only two metavolcanic bifacial thinning flakes from the plow zone. This test revealed a three-zone soil profile at the site: Zone 1, a dark gravish brown (10YR 4/2) sandy loam plow zone 15 cm in thickness; Zone 2, a very pale brown (10YR 7/4) loamy sand E-horizon 15 cm in thickness; and Zone 3, a pale yellow (2.5Y 7/4) fine sandy continuation of the E-horizon. All three levels had some evidence of bioturbation from roots.

The historic component of the site represented in the surface collected artifacts from the current project survey, includes two edged pearlware fragments, two transfer-printed pearlware fragments (see Figure 4.3-147), two white granite (ironstone) fragments, nine transfer-printed whiteware fragments, seven undecorated whiteware fragments, an edged whiteware fragment, Royal China/Currier & Ives whiteware, a fiestware fragment, a decal decorated/ "decalcomania" whiteware fragment, four buff-bodied Stoneware (North American) fragments, a gray-bodied Stoneware (North American) fragment, an annular ware (refined earthenware) fragments, an undecorated refined earthenware fragment, two pieces of Fire-King Jade-ite opaque jade green "milk glass", a piece of black amethyst container glass, a piece of amber container glass, a piece of cobalt blue container glass, a porcelain figurine fragment, a glass marble, a sterling silver spoon, a copper sprocket, plaster, and glazed brick.

Edged and transfer printed pearlware was in production from 1784 to 1840 (FMNH 2017). White granite (ironstone) was in production from 1830s to the early twentieth century (JPPM 2017). Edged and transfer printed whiteware were in production from 1830 to the present (Miller et al. 2000). Decal decorated/ "decalcomania" whiteware was in production from 1890s to 1950s (JPPM 2017). Royal China/Currier & Ives whiteware was in production from 1934 to 1986 (Currier and Ives Dinnerware 2017). Fiestaware whiteware was in production from 1937 to the present (Fiesta Direct Site 2017). Fire-King Jade-ite table glass was in production from 1901 to the present (JPPM 2017).



Figure 4.3-144: Map of Site 31WA1186&1186**. Base Mapping from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-145: View of Site 31WA1186&1186**, Looking North.



Figure 4.3-146: Ground Stone Tool from 31WA1186&1186** (Acc.# 2017.0085.08).



Figure 4.3-147: Historic Artifacts from 31WA1186&1186**: a) Edged Pearlware (2017.0085.01); b) Transfer-Printed Pearlware (2017.0085.01); c) Porcelain Figurine Wheel (Acc.# 2017.0085.02), and d) Edged Pearlware (2017.0085.01).



Figure 4.3-148: Indeterminate Corner Notched Point from 31WA1186&1186** (Acc.# 2017.0085.22).



Figure 4.3-149: Palmer Corner Notched Point from 31WA1186&1186** (Acc.# 2017.0085.11).

Object	Count
Aphyric Rhyolite Palmer Corner-Notched Point	1
Quartz Indeterminate Point	3
Metavolcanic Point Tip	2
Aphyric Rhyolite Biface	1
Metavolcanic Biface	2
Quartz Biface	1
Quartz Biface Tip	1
Metavolcanic Biface Fragment	2
Plagioclase Porphyritic Rhyolite Biface Fragment	1
Quartz Biface Fragment	6
Quartz Porphyritic Rhyolite Biface Fragment	1
Metavolcanic Retouched Flake	3
Plagioclase Porphyritic Rhyolite Retouched Flake	1
Quartz Retouched Flake	4
Aphyric Rhyolite Bifacial Thinning Flake	5
Metavolcanic Bifacial Thinning Flake	25
Plagioclase Porphyritic Rhyolite Bifacial Thinning Flake	1
Quartz Bifacial Thinning Flake	20
Aphyric Rhyolite Interior Flake	19
Metavolcanic Interior Flake	36
Plagioclase Porphyritic Rhyolite Interior Flake	3
Plagioclase-Quartz Porphyritic Rhyolite Interior Flake	1
Quartz Interior Flake	440
Quartz Porphyritic Rhyolite Interior Flake	2
Quartzite Interior Flake	4
Aphyric Rhyolite Pressure/Retouch Flake	1
Quartz Shatter	7
Aphyric Rhyolite Flake Fragment	4
Metavolcanic Flake Fragment	1
Schist Multipurpose Possible Abrader/Anvil (Ground Stone)	1
Metavolcanic Fragment	1
Indeterminate Fragment	1
Quartz Core	1
Pearlware	4
White Granite (Ironstone)	2
Whiteware	18
Refined Earthenware	2
Stoneware (North American)	5
Porcelain Figurine	1
Opaque Jade Green "Milk Glass" Table Glass	2
Amber Container Glass	1
Black Amethyst Container Glass	1
Cobalt Blue Container Glass	1
Colorless Container Glass	1
Colorless Window Glass	1

Table 4.3-65: Summary of Artifacts Recovered from 31WA1186&1186**.

Glass Marble	1
Copper Gear/Sprocket	1
Sterling Silver Spoon	1
Plaster	1
Brick	1
Total	646

The precontact component of the site, represented in the surface collected artifacts from the current project survey, includes an aphyric rhyolite Palmer Corner-Notched point (Figure 4.3-149), two metavolcanic indeterminate points, a quartz indeterminate corner notched point (Figure 4.3-148), a quartz indeterminate point, an aphyric rhyolite biface, a metavolcanic biface, two quartz bifaces, a plagioclase porphyritic rhyolite biface fragment, a quartz porphyritic rhyolite biface fragment, two metavolcanic biface fragments, six quartz biface fragments, schist multipurpose ground stone tool (abrader/anvil) (Figure 4.3-146), a quartz core, a plagioclase porphyritic rhyolite retouched flake, three metavolcanic retouched flakes, four quartz retouched flakes, a plagioclase porphyritic rhyolite bifacial thinning flake, four aphyric rhyolite bifacial thinning flakes, 21 metavolcanic bifacial thinning flakes, 19 quartz bifacial thinning flakes, 11 aphyric rhyolite interior flakes, four plagioclase porphyritic rhyolite interior flakes, a plagioclase-quartz porphyritic rhyolite interior flake, two quartz porphyritic rhyolite interior flakes, 29 metavolcanic interior flakes, 367 quartz interior flakes, three quartzite interior flakes, four pieces of quartz shatter, a metavolcanic fragment, and an indeterminate fragment. Palmer Corner-Notched points date to the Early Archaic period (Coe 1964:67; Ward and Davis 1999:55).

IN DEPTH EVALUATION: Two 1-x-1-m test units were excavated at the site based on the high density of lithic material recovered from the surface collection. No features, concentrations, or intact buried deposits were located in the units. Test Unit 1 was excavated near the center of the site. Test Unit 2 was excavated at the south end of the site near a surface clustered of artifacts. Most of the artifacts recorded in these units derived from the plow zone, but some material also derived from Zone 2. The artifacts located below the plow zone may have resulted from bioturbation given the upland setting and history of plowing in the field. Artifact density diminished with depth in each level in the units.

Test Unit 1 yielded 28 artifacts (Tables 4.3-66). Excavation of this unit revealed a three-zone soil profile: Zone 1, a pale brown (10YR 6/3) sandy loam plow zone 25 cm in thickness; Zone 2, a pale yellow (5Y 8/4) sandy loam E-Horizon 20 cm in thickness; and Zone 3, a brownish yellow (10YR 6/8) sandy clay subsoil. Test Unit 1 had no features, and the only sign of disturbance appeared to be from bioturbation and plowing (Figure 4.3-150). Test Unit 1 exhibited a pattern of decreasing artifact density with each level, with Zone 1 having the highest concentration.

Table 4.3-66: Summary of Artifacts Recovered from Test Unit 1 at 31WA1186&1186*	*, by
Zone and Level.	

Object	Zone/Level	Count	Percentage in Test Unit
Indeterminate Quartz Point	1/1	1	3.57%
Metavolcanic Biface	1/1	1	3.57%
Metavolcanic Interior Flake	1/1	1	3.57%



Figure 4.3-150: Site 31WA1186&1186**, Test Unit 1, Sketch of North Profile.



Figure 4.3-151: Site 31WA1186&1186**, Test Unit 2, Sketch of East Profile.



Figure 4.3-152: Possible Small Dalton Point and Middle to Late Stage Biface from 31WA1186&1186** (Acc.# 2017.0085.34).



Figure 4.3-153: Possible Small Dalton Point from 31WA1186&1186** (Acc.# 2017.0085.34).

Quartz Interior Flake	1/1	9	32.14%
Whiteware	1/1	1	3.57%
Colorless Container Glass	1/1	1	3.57%
Colorless Window Glass	1/1	1	3.57%
Metavolcanic Interior Flake	2/1	4	14.29%
Quartz Interior Flake	2/1	5	17.86%
Quartzite Interior Flake	2/1	1	3.57%
Metavolcanic Bifacial Thinning Flake	2/1 plow scar	1	3.57%
Quartz Interior Flake	2/2	2	7.14%
Total		28	100.00%

The Native American artifacts recovered from Test Unit 1 are similar to those found on the surface nearby. Of the lithic artifacts recovered from this unit, a quartz indeterminate point was located that is similar to a Small Dalton point but does not match the series exactly (Figure 4.3-152 and 4.3-153). Small Dalton points may generally date to the Early Archaic period and appear to have attributes from both the Early Archaic Palmer type and the Late Paleoindian Hardaway type cluster (Daniel 1998:54).

The historic artifacts recovered from Test Unit 1 are similar to those found on the surface of the site and include container glass, colorless window glass, and edged whiteware. Edged whiteware was produced from 1830 to the present (Miller et al. 2000).

Test Unit 2 contained 74 Native American artifacts (Table 4.3-67). These lithic materials are similar to those surface collected nearby. Zone 1 and Zone 2 of the test yielded a similar quantity of artifacts. A profile of a wall from the unit is illustrated in Figure 4.3-151. Test Unit 2 also exhibited signs of bioturbation throughout all zones, and decreasing artifact density with each level excavated.

Object	Zone/Level	Count	Percentage in Test
Ashamia Dhasalita Difesial Thinning Elabo	1/2	1	UIIII 1 250/
Арпунс Кнуоне Бнастаг Гининд Гтаке	1/2	1	1.55%
Metavolcanic Bifacial Thinning Flake	1/2	1	1.35%
Aphyric Rhyolite Interior Flake	1/2	3	4.05%
Metavolcanic Interior Flake	1/2	2	2.70%
Quartz Interior Flake	1/2	28	37.84%
Aphyric Rhyolite Pressure/Retouched Flake	1/2	1	1.35%
Quartz Bifacial Thinning Flake	2/1	1	1.35%
Aphyric Rhyolite Interior Flake	2/1	5	6.76%
Quartz Interior Flake	2/1	17	22.97%
Quartz Shatter	2/1	3	4.05%
Quartz Interior Flake	2/2	12	16.22%
Total		74	100.00%

Table 4.3-67: Summary of Artifacts Recovered from Test Unit 2 at 31WA1186&1186**, by Zone and Level.

The test units exhibit the severe impact of years of seasonal plowing and disking. Additionally, a neighborhood informant described the site to Commonwealth archaeologists as a longtime

favorite spot for artifact picking by local amateur collectors. In fact, the site was previously recorded by an amateur collector named Joe Maylon, who claimed that this site contained a very high volume of Hardaway to Savannah River points. Maylon speculated that the site area likely extended north, to the opposite side of an existing small farmstead. An isolated find (31WA2011) was recorded adjacent to the farmstead during the current project survey. The current project survey expanded the previously existing boundary for Site 31WA1186&1186** to the northwest an additional 170 m.

RECOMMENDATIONS: Based on the analysis of the worth of survey in upland settings, as previously discussed for other multicomponent sites, Chiarulli et al. (2001) conclude that research questions must rely on information from datable contexts or where lithic materials possess solid temporal correlations—something not often found on upland sites. The authors do not dismiss the need for upland surveys; rather they define sites with research potential as having components with sufficient patterning to provide datable contexts in relation to site function and occupation span (Chiarulli et al. 2001:4-8, 5-5). The site surveyed here, 31WA1186&1186**, has yielded a fairly high density of artifacts including several temporally diagnostic artifacts, but lacks features and intact subsurface deposits that would show discrete occupations. Continuous plowing has erased the context and patterning needed to interpret site function and occupation. This site lacks potential to provide additional information on precontact and historic inhabitants of the Piedmont region of North Carolina. This site is recommended not eligible for the NRHP under Criteria A, B, C, and D.

SITE NUMBER: 31WA2011

SITE TYPE: Native American isolated find: indeterminate

SOIL TYPE: Norfolk loamy sand, 2 to 6 percent slopes

SITE SIZE: 106 x 9 m (123 x 83 ft)

SELECTED ARTIFACTS: aphyric rhyolite retouched flake, quartz interior flake, quartz shatter COMMENTS: This isolated find was recovered adjacent to a farmstead during the visual assessment of a plowed field with favorable surface visibility situated on an upland 85 m north of Site 31WA1186&1186**. An aphyric rhyolite retouched flake, a quartz interior flake, and a piece of quartz shatter were recovered from the ground surface. A single judgmental shovel test was excavated within the area of the finds but no additional cultural material was recovered. **RECOMMENDATIONS:** This set of artifacts lack sufficient context for further interpretation and are unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP.

Segment T (STIP R-2828)	
Length	1,926.03 m (6,319.00 ft)
Area	134.09 ha (331.34 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	26.85 ha (66.35 acres)
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	31.76 ha (78.48 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	

Table 4.3-68: Segment T Survey Summary.

Total Area Shovel Tested at 30-m (98-ft) Interval	39.15 ha (96.74 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	36.33 ha (89.77 acres)
Total # of Shovel Tests	460
Total # Sites Documented	1
Total # Isolated Finds Documented	2

Segment T, which includes a portion of the project corridor approximately 1,926.03 m (6,319.00 ft) in length, extends from Swift Creek northeast to I-40 (see Figure 4.3-1c). The segment widens considerably to the east and spans a distance of 2,531 m (8,303 ft) north to south along the highway. The northern border of this segment is New Bethel Church Road and the eastern border is I-40. Swift Creek runs through the southern portion of the segment. While not the longest portion of the corridor, Segment T is the largest segment in the project in terms of land area. A very small previously recorded site, 31WA286, is located in Segment T. As expected for such an extensive area, many different soils types are present in Segment T. Among the more extensive are those of the Appling and Wedowee series and Wehadkee and Bibb soils occurring together. The most extensive soil unit in Segment T is Appling sandy loam, 2 to 6 percent slopes, moderately eroded. Several other soil units are nearly as prevalent, however. Appling and Wedowee soils are classified as well-drained, while Wehadkee and Bibb soils are classified as poorly drained. The floodplain along Swift Creek is far narrower in Segment T than across the creek in Segment S. The central portion of the segment is quite rugged, as it cuts across a series of ridges and steep slopes are common. East of these ridges, Segment T is more gently rolling, although it is bisected by a creek bordered by extensive wetlands. A large portion of the segment was coded as moderately eroded, slope, poorly drained, or wet. Areas coded as excessive slope did not always match the locations of actual slopes, as it appears the topographic map has some minor inaccuracies, and therefore locations of shovel tests and of areas avoided due to steep slopes do not always match the original coding for the segment. At the time of the survey, ground cover in Segment T consisted of woods, wetland, floodplain, the margin of I-40, and portions of the Wrenn Road wastewater treatment facility. The portion of the facility that intersects Segment T consists of two ridgetop areas covered by evenly-spaced spigots. One of these areas is planted in regularly-spaced trees, while the other is an open hay field. These spigot fields were avoided during survey due to the likelihood of disturbance and buried pipes. Numerous trails wind through the eastern half of Segment T and multiple hunting stands were observed. Survey in Segment T consisted of shovel testing at 30-m (98-ft) intervals in un-coded areas, where possible, and visual inspection at 30-m (98-ft) intervals where the ground was not too wet to allow passage on foot. Despite the large extent of the segment, survey resulted in the identification of only three archaeological resources in Segment T (see Figure 4.3-2c). No cultural material was identified in the vicinity of 31WA286. A test unit was excavated at site 31JT500 following the initial survey.

SITE NUMBER: 31WA2012

SITE TYPE: Native American isolated find: possibly Late Archaic

SOIL TYPE: Wagram loamy sand, 6 to 10 percent slopes

SITE SIZE: 37 x 25 m (123 x 83 ft)

SELECTED ARTIFACTS: plagioclase porphyritic rhyolite possible Savannah River Stemmed point, metavolcanic interior flake

COMMENTS: This isolated find was recovered during shovel testing in a mixed forest containing mature trees and secondary growth situated on a first stream terrace located on the north shore of Swift Creek at the center of Segment T. Two artifacts were found in this location, each deriving from Zone 1 of two respective positive shovel tests. Shovel Test 3 yielded a plagioclase porphyritic rhyolite point that resembles a Savanah River Stemmed Point but the blade proportions of this specimen differ, which could indicated that the item was heavily resharpened –thus accounting for its slightly different look (Figure 4.3-154). Shovel Test 5 yielded a metavolcanic interior flake. Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material. Savannah River Stemmed points date to the Late Archaic period (Coe 1964:44-45).

RECOMMENDATIONS: These artifacts lack sufficient context for further interpretation and are unlikely to provide additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP.

SITE NUMBER: 31JT500

SITE TYPE: Native American scatter: Woodland

SOIL TYPE: Altavista fine sandy loam, 0 to 2 percent slopes, occasionally flooded *SITE SIZE:* 76 x 37 m (249 x 123 ft)

SELECTED ARTIFACTS: indeterminate Native American ceramics, metavolcanic bifacial thinning flakes, plagioclase porphyritic rhyolite bifacial thinning flake, quartz bifacial thinning flakes, aphyric rhyolite interior flakes, metavolcanic interior flakes, quartz interiors, quartzite shatter

COMMENTS: This site was identified while shovel testing in a mixed secondary forest situated just west of I-40, to the north of Swift Creek (Figure 4.3-155 and 4.3-156). The artifact assemblage (n=43) was recovered from Zone 2 of nine positive shovel tests, and also from Zones 1. 2. and 3 of a test unit excavated at the site. The artifacts recovered from Zone 2 of the positive shovel tests include an indeterminate net-impressed very coarse sand-tempered ceramic body sherd (similar to Dan River but the interior is not scraped) (Figure 4.3-157), a plagioclase porphyritic rhyolite bifacial thinning flake, three metavolcanic bifacial thinning flakes, three aphyric rhyolite interior flakes, 10 metavolcanic interior flakes, and six guartz interior flakes. Shovel testing revealed a three-zone soil profile at the site: Zone 1, a dark gravish brown (10YR 4/2) sandy loam A-horizon approximately 15 cm in thickness; Zone 2, a very pale brown (10YR 7/3) sandy loam E-horizon approximately 30 cm in thickness; and Zone 3, a light brownish yellow (10YR 6/8) sandy clay subsoil. All three zones had evidence of bioturbation from roots. **IN DEPTH EVALUATION:** Based on the quality of artifacts located in Zone 2 of positive shovel tests at the site, a single 1-x-1-m test unit was excavated near Shovel Test 9 to investigate possible buried deposits and the presence of Native American ceramics. The artifacts recovered from this unit include two indeterminate Native American ceramic sherds, two quartz bifacial thinning flakes, three aphyric rhyolite interior flakes, two metavolcanic interior flakes, five



Figure 4.3-154: Possible Savannah River Stemmed from 31WA2012 (Acc.# 2017.0087.01).



Figure 4.3-155: Map of Site 31JT500. Base Mapping from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).


Figure 4.3-156: View of Site 31JT500, Looking North.



Figure 4.3-157: Indeterminate Net-Impressed Body Sherd from 31JT500 (Acc.# 2017.0088.06).

quartz interior flakes, and a piece of quartzite shatter (4.3-69). The unit profile contained four soil zones: Zone 1, a dark brown (10YR 3/2) sandy loam developing A-horizon 8 cm in thickness: Zone 2, a brown (10YR 5/3) sandy loam older A-horizon 12 cm in thickness; Zone 3, a light yellowish brown (10YR 6/4) sandy E-horizon 30 cm in thickness; and Zone 4, a strong brown (7.5YR 4/6) sandy clay lower subsoil (Figures 4.3-158 and 4.3-159).

Object	Zone/Level	Count	Percentage in Test Unit
Indeterminate Native American Ceramic	1/1	1	5.26%
Aphyric Rhyolite Interior Flake	1/1	1	5.26%
Quartz Interior Flake	1/1	2	10.53%
Indeterminate Native American Ceramic	2/1	1	5.26%
Quartz Bifacial Thinning Flake	2/1	1	5.26%
Metavolcanic Interior Flake	2/1	1	5.26%
Quartz Interior Flake	2/1	2	10.53%
Quartz Bifacial Thinning Flake	3/1	1	5.26%
Aphyric Rhyolite Interior Flake	3/1	1	5.26%
Quartz Interior Flake	3/1	1	5.26%
Quartzite Shatter	3/1	1	5.26%
Aphyric Rhyolite Interior Flake	3/2	2	10.53%
Metavolcanic Interior Flake	3/2	1	5.26%
Quartz Interior Flake	3/2	2	10.53%
Aphyric Rhyolite Interior Flake	3/3	1	5.26%
Total		19	100.00%

Table 4.3-69: Summary of Artifacts Recovered from Test Unit 1 at 31JT500, by Zone and Level.

While there was evidence for bioturbation throughout the soil zones, there was no sign of plowing. The presence of artifacts in Zone 2 of the site is likely the result of bioturbation. The site stratigraphy appears to reflect an intact landform area with natural strata. The artifacts recovered from the site are summarized in Table 4.3-70.

RECOMMENDATIONS: The low artifact density and lack of specific diagnostic artifacts suggests little research potential for additional information on precontact inhabitants of the Piedmont region of North Carolina. Site 31JT500 is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

Object	Count
Indeterminate Native American Ceramics	3
Metavolcanic Bifacial Thinning Flake	3
Plagioclase Porphyritic Rhyolite Bifacial Thinning Flake	1
Quartz Bifacial Thinning Flake	2
Aphyric Rhyolite Interior Flake	8
Metavolcanic Interior Flake	12
Quartz Interior Flake	13
Quartzite Shatter	1
Total	43

Table 4.3-70:Summary of Artifacts Recovered from 31JT500.



Figure 4.3-158: Site 31JT500, Test Unit 1, Sketch of West Profile.



Figure 4.3-159: 31JT500, Test Unit 1, Photograph of West Profile.

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 16 x 13 m (51 x 44 ft)

SELECTED ARTIFACTS: aphyric rhyolite interior flake, metavolcanic interior flake, quartz interior flake

COMMENTS: This isolate find was recovered while shovel testing in a mixed secondary forest situated on a gentle side slope of a stream terrace in the eastern edge of Segment T, near I-40. Three artifacts were recovered from Zone 2 of a single positive shovel test. These items include an aphyric rhyolite interior flake, a metavolcanic interior flake, and a quartz interior flake. The location of these materials in Zone 2 of the test is likely the result of bioturbation. Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material.

RECOMMENDATIONS: This set of artifacts lack sufficient context for further interpretation and the location is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

Segment U (STIP R-2828)	
Length	2,114.10 m (6,936.03 ft)
Area	32.06 ha (79.23 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	17.37 ha (42.91 acres)
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	8.68 ha (21.46 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	1.87 ha (4.63 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	4.14 ha (10.23 acres)
Total # of Shovel Tests	21
Total # Sites Documented	
Total # Isolated Finds Documented	

 Table 4.3-71:
 Segment U Survey Summary.

Together with Segment W, Segment U forms part of a northern extension of the project area along I-40 (see Figure 4.3-1c). Segment U extends northward from New Bethel Church Road along the west side of the highway for 2,114.10 m (6,936.03 ft). Over 90 percent of Segment U is covered by Appling sandy loam soils. Of these, moderately eroded soils between 2 and 10 percent slopes are the most extensive. Appling soils are classified as well-drained. Very little of Segment U was coded as wet or poorly drained, but over half of the segment was coded as moderately eroded. The landscape here is undulating, as multiple drainages that flow under I-40 and eventually into Swift Creek cut across the segment at near-perpendicular angles. A utility corridor also traverses the segment east to west. Survey consisted of shovel testing at 30-m (98-ft) intervals in un-coded areas, where possible, and visual inspection at 30-m (98-ft) intervals across the rest of the segment. No archaeological resources were recorded in Segment U (see Figure 4.3-2c).

Segment V (STIP R-2828)	
Length	1,335.88 m (4,382.80 ft)
Area	20.44 ha (50.48 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	5.00 ha (12.35 acres)
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	2.12 ha (5.23 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	.43 ha (1.06 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	12.89 ha (31.84 acres)
Total # of Shovel Tests	2
Total # Sites Documented	
Total # Isolated Finds Documented	

Table 4.3-72: Segment V Survey Summary.

Segment V forms part of a southward extension of the project area along I-40 (see Figure 4.3-1c). The segment extends south from Swift Creek along the west side of the highway for approximately 1,335.88 m (4,382.80 ft). Three previously recorded sites, 31JT325, 31JT326, and 31JT327, overlap the segment at its southern end. Soils in Segment V consist of Rion, Wehadkee, Cowarts, Wedowee, Nankin and other soil series. The most extensive soil unit present is Rion sandy loam, 15 to 40 percent slopes, which covers about 40 percent of the segment. The above soil series are classified as well-drained, save for Wehadkee soils, which are classified as poorly drained. The landscape is rugged and ground cover at the time of the survey consisted of wetlands, woods, logged areas, and commercial development. Survey consisted of shovel testing at 30-m (98-ft) intervals in areas not coded as eroded or poorly drained, where possible, and visual inspection at 30-m (98-ft) intervals across the rest of the segment. Areas directly around commercial buildings were avoided because of the likelihood for buried utilities and disturbance. No archaeological resources were recorded in Segment V and no cultural material associated with sites 31JT325, 31JT326, or 31JT327 was identified (see Figure 4.3-2c).

STIP R-2829

Table 4.3-73:Segment W Survey Summary.

Segment W (STIP R-2829)	
Length	2167.76 m (7,112.09 ft)
Area	34.25 ha (84.61 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	4.63 ha (11.45 acres)
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	20.66 ha (51.04 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	.51 ha (1.25 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	2.96 ha (7.31 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	5.49 ha (13.56 acres)
Total # of Shovel Tests	118
Total # Sites Documented	2
Total # Isolated Finds Documented	1

Segment W forms the eastern half of a northwestern extension of the project area along I-40 (see Figure 4.3-1c). The segment extends 2,142 m (7,027 ft) north along the highway from New Bethel Church Road. Approximately 80 percent of Segment W is covered by Appling sandy loam. The most extensive soil unit in the segment is Appling sandy loam, 6 to 10 percent slopes, moderately eroded. Appling soils are classified as well-drained. At the time of survey, ground cover in the segment consisted of woods, creek bottoms, recent housing developments, an agricultural field, and a utility corridor. About two-thirds of the segment was coded as moderately eroded. Survey consisted of visual inspection at 30-m (98-ft) intervals and shovel testing at 30-m (98-ft) intervals, where possible. Areas directly around houses were avoided because of the likelihood for buried utilities and disturbance. Survey resulted in the identification of two archaeological sites and one isolated find in Segment W (see Figure 4.3-2c). All three were located in the northern half of the segment.

SITE NUMBER: 31WA2018

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Appling sandy loam, 6 to 10 percent slopes, moderately eroded

SITE SIZE: 14 x 11 m (46 x 36 ft)

SELECTED ARTIFACTS: metavolcanic interior flake; quartz interior flake

COMMENTS: This isolate was recovered while shovel testing on a stream terrace in a mature forest located on the western edge of Segment W, just east of I-40. A metavolcanic interior flake and a quartz interior flake were recovered from Zone 1 of a single positive shovel test. Radial



Figure 4.3-160: Map of Site 31WA2019. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-161: View of Site 31WA2019, Looking North.

shovel tests excavated to the north and south at 15-m intervals yielded no additional material. The presence of modern roads impeded the excavation of radial shovels tests to the east and west.

RECOMMENDATIONS: These artifacts lack sufficient context for further interpretation and are unlikely to provide additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2019

SITE TYPE: Native American scatter: Middle Woodland

SOIL TYPE: Appling sandy loam, 10 to 15 percent slopes

SITE SIZE: 30 x 20 m (98 x 65 ft)

SELECTED ARTIFACTS: Native American Yadkin series ceramic, indeterminate Native American ceramic, aphyric rhyolite interior flake, quartz interior flake, indeterminate quartz fragment

COMMENTS: The site was encountered while shovel testing on the same stream terrace as 31WA2018. It is situated on the western edge of Segment W, just east of I-40 (Figures 4.3-160 and 4.3-161). The artifacts recovered from the site (n=5) derive from two positive shovel tests. Zone 1 of Shovel Test 1 contained an indeterminate Native American ceramic sherd with visible quartz temper, an aphyric rhyolite interior flake, and a quartz fragment. Zone 2 of the same positive test contained a quartz interior flake. Zone 1 of Shovel Test 3 contained a Native American Yadkin series ceramic body sherd with granule-sized quartz temper. Yadkin series ceramics date the Middle Woodland period between approximately 500 B.C. and A.D. 800 (Coe 1964:30-32; Ward and Davis 1999:86). Radial shovel tests were excavated to the north, east, and south at 15-m intervals but could not be excavated to the west because of the interstate. The typical soil profile of the site contained three zones: Zone 1, a brown (10YR 4/3) sandy loam Ahorizon approximately 18 cm in thickness; Zone 2, a yellow (2.5Y 7/6) sandy E-horizon approximately 25 cm in thickness; Zone 3, a reddish yellow (7.5YR 6/8) sandy clay subsoil. **RECOMMENDATIONS:** Given the low artifact density, lack of diagnostic artifacts, and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Middle Woodland Native American inhabitants of the Piedmont region of North Carolina. This site is recommended not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2020

SITE TYPE: Native American scatter: Middle Woodland

SOIL TYPE: Appling sandy loam, 6 to 10 percent slopes, moderately eroded

SITE SIZE: 68 x 39 m (222 x 128 ft)

SELECTED ARTIFACTS: Native American Yadkin series fabric-impressed ceramics, aphyric rhyolite bifacial thinning flake, rhyolitic breccia bifacial thinning flake, aphyric rhyolite interior flakes, quartz interior flakes, quartz shatter

COMMENTS: The site was encountered while shovel testing on a wooded stream terrace on the western edge of Segment W, just east of I-40 (Figures 4.3-162 and 4.3-163). The site is situated just 80 m north of 31WA2019. The site assemblage (n=14) derived from five positive shovel tests (Table 4.3-74). Zone 1 of Shovel Test 1 contained two Native American Yadkin series fabric impressed ceramic sherds (a rim fragment and a body fragment) (Figure 4.3-164), and an aphyric rhyolite interior flake. The Yadkin series dates to the Middle Woodland period between



Figure 4.3-162: Map of Site 31WA2020. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-163: View of Site 31WA2020, Looking South.



Figure 4.3-164: Yadkin Series Ceramics from 31WA2020, Fabric Impressed Rim and Body Sherds(Acc.# 2017.0145.01).

approximately 500 B.C. and A.D. 800 (Coe 1964:30-32; Ward and Davis 1999:86). Zone 2 of the same positive test contained an aphyric rhyolite bifacial thinning flake and an aphyric rhyolite interior flake. Zone 1 of Shovel Test 6 contained a small indeterminate Native American ceramic sherd. Zone 1 of Shovel Test 8 contained four small indeterminate Native American ceramic sherds. Zone 1 of Shovel Test 9 contained a quartz interior flake. Zone 1 of Shovel Test 9 contained a quartz interior flake. Zone 1 of Shovel Test 9 contained a quartz interior flake. Zone 1 of Shovel Test 10 contained a rhyolitic breccia bifacial thinning flake. Zone 2 of the same positive test contained a quartz interior flake and quartz shatter. The typical soil profile at the site contains three soil zones: Zone 1, a brown (10YR 5/3) silty loam A-horizon approximately 25 cm in thickness; Zone 2, a brownish yellow (10YR 6/6) sandy E-horizon approximately 30 cm in thickness; Zone 2 at the site is likely the result of bioturbation. Radial shovel tests were excavated to the north, east, and south at 15-m intervals but not to the west due to the interstate.

Table 4.3-74:	Summary of Artifacts	Recovered	from 31WA2020.
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Object	Count
Native American Yadkin Series Ceramic	2
Indeterminate Native American Ceramic	5
Aphyric Rhyolite Bifacial Thinning Flake	1
Rhyolitic Breccia Bifacial Thinning Flake	1
Aphyric Rhyolite Interior Flake	2
Quartz Interior Flake	2
Quartz Shatter	1
Total	14

RECOMMENDATIONS: Given the low artifact density and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Piedmont region of North Carolina. This site is recommended not eligible for the NRHP under Criteria A, B, C, or D.

Segment X (STIP R-2829)	
Length	1,245.56 m (4.086.47 ft)
Area	126.27 ha (312.01 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	.32 ha (.80 acres)
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	72.31 ha (178.67 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	2.08 ha (5.14 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	.95 ha (2.34 acres)
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	8.39 ha (20.72 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	

Table 4.3-75:Segment X Survey Summary.

Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	42.22 ha (104.34 acres)
Total # of Shovel Tests	118
Total # Sites Documented	2
Total # Isolated Finds Documented	4

Segment X represents the portion of the project area between I-40 to the west, US 70 to the south, and an unnamed creek to the east (see Figure 4.3-1c). It spans the county line between Wake and Johnston counties. The segment represents approximately 1,245.56 m (4.086.47 ft) of the project corridor. Segment X is the second-largest segment in the project after Segment T, which is located just across I-40 to the west. The segment extends along I-40 for 864 m (2,836 ft) and along US 70 for 1,617 m (5,304 ft). Soils in Segment X are predominantly of the Appling series, with Rion, Wedowee, and lesser amounts of other soils present. The most extensive soil unit in the segment is Appling sandy loam, 2 to 6 percent slopes, moderately eroded. Appling, Rion, and Wedowee soils are all classified as well-drained. Segment X has the largest amount of area coded as eroded, although given the size of the segment this represents less than 60 percent of the total segment area. A large area was coded as excessive slope where the landscape slopes down to the east to the valley bottom along the unnamed creek. The creek bottom area is very wet, and there are other wet or poorly drained areas in the segment. Three artificial ponds are located in the upland portion of Segment X, encompassing a total of approximately 1.34 ha (3.31 acres). At the time of the survey, ground cover in the segment consisted of woods, logged areas, agricultural fields, wetlands, residential lots, and ramps at the junction of I-40 and US 70. New Bethel Church Road crosses through the segment. The majority of Segment X was subject to visual inspection at 10-m (33-ft) intervals where the ground was not too wet to allow passage on foot. The remainder was subject to surface survey at 10-m (33-ft), where permitted by higher ground surface visibility in portions of the agricultural fields, and to shovel testing at 30-m (98ft) intervals, where possible. Survey resulted in the identification of two archaeological sites and four isolated finds in Segment X (see Figure 4.3-2c).

SITE NUMBER: 31WA2021

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Appling fine sandy loam, 2 to 6 percent slopes, moderately eroded

SITE SIZE: 19 x 12 m (61 x 46 ft)

SELECTED ARTIFACTS: metavolcanic flake fragment

COMMENTS: A single metavolcanic flake fragment was recovered while shovel testing in a fallow field situated on an upland flat in the western half of Segment X, just west of New Bethel Church Road. The flake was recovered from Zone 1 of a positive shovel test. Radial shovel tests excavated to the north, west, and south at 15-m intervals yielded no additional material. The presence of modern roads impeded the excavation of radial shovels tests to the east.

RECOMMENDATIONS: The artifact lacks sufficient context for further interpretation and the location is unlikely to provide additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.



Figure 4.3-165: Map of Site 31WA2022 and 31WA2023. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-166: View of Site 31WA2022 and 31WA2023, Looking North.

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Durham loamy sand, 2 to 6 percent slopes

SITE SIZE: 32 x 19 m (106 x 63 ft)

SELECTED ARTIFACTS: quartz bifacial thinning flake, metavolcanic interior flakes, quartz interior flake, rhyolitic breccia interior flake, quartzite fragment

COMMENTS: The site was encountered while shovel testing in an agricultural field with varied surface visibility located on the same upland flat as 31WA2023, east of New Bethel Church Road (Figures 4.3 -165 and 4.3-166). The site assemblage (n=6) was primarily recovered from Zone 1 of three positive shovel tests. These items include two metavolcanic interior flakes, a quartz interior flake, a rhyolitic breccia interior flake, and a quartzite fragment. Additionally, a quartz bifacial thinning flake was recovered from the ground surface. The typical soil profile at the site contains three zones: Zone 1, a brown (10YR 5/3) sandy plow zone approximately 25 cm in thickness; Zone 2, a yellow (10YR 7/6) sandy E-horizon approximately 20 cm in thickness; and Zone 3, a reddish yellow (7.5YR 6/8) sandy clay subsoil.

RECOMMENDATIONS: Given the low artifact density, lack of diagnostic artifacts, and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Piedmont region of North Carolina. This site is recommended not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2023

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Appling sandy loam, 2 to 6 percent slopes, moderately eroded

SITE SIZE: 37 x 26 m (123 x 86 ft)

SELECTED ARTIFACTS: aphyric rhyolite interior flakes, quartz interior flakes, quartz shatter **COMMENTS:** The site was encountered while shovel testing in an agricultural field situated on an upland flat approximately 40 m north of 31WA2022 (see Figures 4.3-165 and 4.3-166). The site assemblage (n=7) was recovered from three positive shovel tests, with most materials located in Zone 1 of the positive tests. The artifacts recovered from Zone 1 at the site include an aphyric rhyolite interior flake, three interior quartz flakes, and quartz shatter. Additionally, an aphyric rhyolite interior flake and an interior quartz flake derived from Zone 2 of Shovel Test 2. The typical soil profile at the site contains three zones: Zone 1, a brown (10YR 5/3) sandy loam plow zone approximately 30 cm in thickness; Zone 2, an olive yellow (2.5Y 6/6) sandy clay approximately 15 cm in thickness; and Zone 3, a brownish yellow (10YR 6/8) sandy clay subsoil. Radial shovel tests were excavated to the west and south but could not be pursued to the north, as this area is low-lying and wet, or to the east due to the disturbance of a farm road. **RECOMMENDATIONS:** Given the low artifact density, lack of diagnostic artifacts, and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Piedmont region of North Carolina. This site is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2024

SITE TYPE: Native American isolated find: unattributed *SOIL TYPE:* Appling sandy loam, 2 to 6 percent slopes, moderately eroded *SITE SIZE:* 10 x 8 m (32 x 27 ft) *SELECTED ARTIFACTS:* aphyric rhyolite flake fragment **COMMENTS:** An aphyric rhyolite flake was recovered from the ground surface during the visual assessment of an agricultural field with excellent surface visibility on the southern edge of the same upland flat that holds 31WA2021. The area was visually inspected at 10-m intervals and two judgmental shovel tests were also excavated, but no additional artifacts recovered.

RECOMMENDATIONS: The isolate lacks sufficient context for further interpretation and the location is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2025

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Appling sandy loam, 2 to 6 percent slopes, moderately eroded

SITE SIZE: 10 x 8 m (32 x 27 ft)

SELECTED ARTIFACTS: quartz porphyritic rhyolite interior flake

COMMENTS: A single quartz porphyritic rhyolite interior flake was recovered from the ground surface in a fallow field, with fair surface visibility, which is situated on the southern edge of an upland flat, approximately 60 m east of 31WA2024. The area was visually inspected at 10-m intervals and two judgmental shovel tests were excavated, but no additional artifacts were encountered.

RECOMMENDATIONS: The isolate lacks sufficient context for further interpretation and is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2026

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Durham loamy sand, 2 to 6 percent slopes

SITE SIZE: 8 x 8 m (27 x 27 ft)

SELECTED ARTIFACTS: quartz interior flake

COMMENTS: A single quartz flake was recovered from the ground surface in an agricultural field with varied surface visibility situated on an upland flat. The area was visually inspected at 10-m intervals and one judgmental shovel test was excavated, but no additional artifacts were recovered.

RECOMMENDATIONS: This artifact lacks sufficient context for further interpretation and is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

Segment Y (STIP R-2829)	
Length	2,658.54 m (8,722.26 ft)
Area	95.35 ha (235.61 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	15.44 ha (38.16 acres)
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	45.81 ha (113.19 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	

Table 4.3-76: Segment Y Survey Summary.

Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	3.59 ha (8.87 acres)
Total Area Shovel Tested with Judgmental Test Placement	.44 ha (1.08 acres)
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	30.07 ha (74.31 acres)
Total # of Shovel Tests	44
Total # Sites Documented	
Total # Isolated Finds Documented	1

Segment Y is located in the southeast corner of the intersection of I-40 and US 70 (see Figure 4.3-1c). It extends for 2,938 m (9,640 ft) along the east side of I-40 south of US 70, and for 1,617 m (5,304 ft) east along US 70 from I-40. Segment Y spans both sides of Swift Creek. Two previously recorded archaeological sites, 31JT326, and 31JT328, intersect Segment Y near its southern end. Nearly half of segment Y is covered by soils of the Wedowee series. Rion, Appling, and lesser amounts of many other soil series are also present. The most extensive soil unit in the segment is Wedowee sandy loam, 2 to 8 percent slopes. Appling, Rion, and Wedowee soils are all classified as well-drained. At the time of the survey, ground cover in the segment consisted of woods, wetlands, a ramp between I-40 and US 70, disturbed areas, and residential lots. Much of Segment Y is moderately eroded, wet/poorly drained, or excessively sloped. Visibility was low throughout the segment. Survey consisted of visual inspection at 10-m (33-ft) intervals, shovel testing at 30-m (98-ft) intervals, and judgmental shovel tests. Survey resulted in the identification of one isolated find in Segment Y (see Figure 4.3-2c). The site was identified in the triangular area inside the junction between I-40 and US 70 and is surrounded by highway on all sides.

SITE NUMBER: 31WA2027

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Appling sandy loam, 2 to 6 percent slopes

SITE SIZE: 18 x 14 m (58 x 47 ft)

SELECTED ARTIFACTS: plagioclase-quartz porphyritic rhyolite indeterminate point midsection

COMMENTS: A fragmented lithic point was recovered during shovel testing in a planted pine forest situated on a triangular-shaped strip of land surrounded by I-40 an access ramps (a veritable "expressway island"). This area is located on an upland flat in the western portion of Segment Y. A plagioclase-quartz porphyritic rhyolite indeterminate point mid-section was recovered from Zone 1 of a positive shovel test. Radial shovel tests were excavated at 15-m intervals, but no additional cultural material was recovered.

RECOMMENDATIONS: The isolated find lacks sufficient context for further interpretation and the location is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D. Table 4.3-77:Segment AA Survey Summary.

Segment AA (STIP R-2829)	
Length	1,976.05 m (6,483.09 ft)
Area	30.57 ha (75.55 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	9.99 ha (24.69 acres)
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	16.62 ha (41.08 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	2.92 ha (7.21 acres)
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	1.04 ha (2.57 acres)
Total # of Shovel Tests	
Total # Sites Documented	
Total # Isolated Finds Documented	

Segment AA forms the southern half of an extension of the project area along US 70, spanning a 1,976.05 m (6,483.09 ft) long length of the highway starting at an unnamed creek to the west (see Figure 4.3-1c). More than 95 percent of Segment AA is covered by Wedowee sandy loam, the majority of which has 2 to 8 percent slopes. Wehadkee loam and Cowarts loamy sand are also present in the segment. We dowee and Cowarts soils are classified as well-drained, while Wehadkee soils are classified as poorly drained. Over 90 percent of Segment AA was coded as moderately eroded. Most of the remainder was coded as wet. The remaining, un-coded area of Segment AA encompasses less than 0.2 ha (0.5 acres). No testing could be conducted in this small area, however, as it has been disturbed by a recent housing development. The northern edge of the segment is disturbed by US 70. A utility corridor cuts through the segment near its western end, and New Bethel Road and Cornwallis Road both pass through the segment. At the time of the survey, ground cover in Segment AA consisted of woods, brush, newly built homes, older residences, lawns, farmland, roadways, and utilities. There is a drainage leading out of the center of the segment to the southwest, and the western end of the segment slopes down to the wetland along the unnamed creek that forms the western segment boundary. Ground visibility was very low throughout the segment. Survey consisted entirely of visual inspection at 30-m (98-ft) intervals. No archaeological resources were recorded in Segment AA (see Figure 4.3-2c). Some old farm outbuildings were noted along the south side of New Bethel Road, but these are located 45 m (148 ft) outside of the project area. One eroded area (7.21 acres) was not surveyed because the landowner of a private business denied access to their property (see Figure 4.3-1c).

Table 4.3-78:Segment BB Survey Summary.

Segment BB (STIP R-2829)	
Length	2045.46 m (6,710.82 ft)
Area	32.73 ha (80.87 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	12.64 ha (31.23 acres)
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	17 ha (42.00 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	3.09 ha (7.64 acres)
Total # of Shovel Tests	
Total # Sites Documented	
Total # Isolated Finds Documented	

Segment BB is 2045.46 m (6,710.82 ft) long and extends along the northern half of US 70 from an unnamed creek on the west side of the segment (see Figure 4.3-1c). Together with Segment AA to the south, it forms the US 70 extension of the project area. Soils in Segment BB are about 90 percent Wedowee sandy loam (between 2 and 15 percent slopes) and 10 percent Wehadkee loam, 0 to 2 percent slopes, frequently flooded. Wedowee soils are classified as well-drained, and Wehadkee soils are classified as poorly drained. Almost 90 percent of Segment BB is classified as moderately eroded, and all of the remaining land in the segment is classified as wet or poorly drained. No un-coded area remained for testing. The terrain in the segment is undulating and slopes down to the west to meet the unnamed creek. Ground visibility was very low across the segment. As in Segment AA, survey consisted entirely of visual inspection at 30m (98-ft) intervals. No archaeological resources were recorded in Segment BB (see Figure 4.3-2c).

Segment CC (STIP R-2829)	
Length	2,446.10 m (8,025.27 ft)
Area	93.39 ha (230.76 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	74.66 ha (184.49 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	.17 ha (.42 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	

Table 4.3-79: Segment CC Survey Summary.

Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	6.74 ha (16.65 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	11.82 ha (29.20 acres)
Total # of Shovel Tests	89
Total # Sites Documented	
Total # Isolated Finds Documented	4

Segment CC, which is 2,446.10 m (8,025.27 ft) long, begins at the same unnamed creek that borders Segments X, AA, and BB and extends northeastward to end at White Oak Road (see Figure 4.3-1c). When measured from the creek to White Oak Road, Segment CC is the longest segment in the project. At the northwest corner of the segment, the project area extends south off of White Oak Road along Tiffany Creek Drive and beyond to end at Old Cascade Drive. The segment intersects previously recorded site 31WA4, a very large site representing a purported burial mound. It is not known if a mound was located within the portion of the site that intersects Segment CC. Just over half of the segment harbors Appling soils, most of which are Appling sandy loam. Also present are Wedowee and Wehadke series soils and lesser amounts of other soil types. The most extensive soil unit in Segment CC is Appling sandy loam, 2 to 6 percent slopes, moderately eroded. Appling and Wedowee soils are classified as well-drained, while Wehadkee soils are classified as poorly drained. About 80 percent of Segment CC was coded as moderately eroded and much of the remainder was coded as severely eroded, poorly drained, or wet. The landscape is relatively level near White Oak Road, but slopes down to the west and south. The area along the unnamed creek at the southern end of the segment consists of wetlands. Multiple artificial ponds overlap the segment, covering a total of at least 1.49 ha (3.69 acres). Numerous boulders and rocky outcrops were observed in the segment, including a large pile of boulders next to a stream located north of the utility corridor that cuts through the center of the segment. Some of the trails in the southern half of the segment had worn the soil down to bedrock. Other than these worn trails, ground surface visibility was low throughout the segment. At the time of the survey, ground cover in Segment CC consisted of woods, recently logged areas, brush, and agricultural fields, with residential and commercial lots located at the northern end of the segment off of White Oak Road, Tiffany Creek Drive, and Old Cascade Drive. The developed portion of the segment is disturbed. This disturbed area coincides with site 31WA4 and no evidence of a burial mound was observed here. The agricultural fields had been left fallow too long for surface survey to be possible in most places. Survey consisted of visual inspection at 30-m (98-ft) intervals of areas that were coded as eroded, wet, and poorly drained. The various pockets of un-coded land were shovel tested at 30-m (98-ft) intervals, where possible. Some judgmental shovel tests were excavated, including in a line across the stream at the location of the boulder pile. Judgmental shovel testing did not uncover any cultural materials. Survey resulted in the identification of four isolated finds in Segment CC (see Figure 4.3-2c).

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 32 x 18 m (103 x 59 ft)

SELECTED ARTIFACTS: quartz late stage biface, aphyric rhyolite interior flake **COMMENTS:** This isolated find was recovered from the ground surface during shovel testing in a fallow field containing varied surface visibility that is situated on an upland flat west of White Oak Road on the eastern edge of Segment CC. An aphyric rhyolite interior flake and a quartz late stage biface were surface collected near an erosional gully cutting through the field. The area was shovel tested, and visually assessed via pedestrian survey at 10-m intervals where visibility was favorable, but no additional artifacts were located.

RECOMMENDATIONS: These artifacts lack sufficient context for further interpretation and the location is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2029

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Appling sandy loam, 2 to 6 percent slopes

SITE SIZE: 5 x 4 m (17 x 14 ft)

SELECTED ARTIFACTS: metavolcanic interior flake

COMMENTS: A single metavolcanic interior flake was recovered from the ground surface during visual assessment of a fallow field containing varied visibility on the southern edge of the same upland flat as 31WA2028. The area was visually assessed via pedestrian survey at10-m intervals and one judgmental shovel test was excavated, but no additional artifacts were found. **RECOMMENDATIONS:** This artifact lacks sufficient context for further interpretation and the location is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolate is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2030&2030**

SITE TYPE: Native American isolated find: unattributed; Historic isolated find: unattributed *SOIL TYPE:* Appling sandy loam, 6 to 10 percent slopes, moderately eroded *SITE SIZE:* 20 x 4 m (66 x 14 ft)

SELECTED ARTIFACTS: metavolcanic interior flake, buff-bodied stoneware (North American)

COMMENTS: This isolated find was recovered from the ground surface during shovel testing and the visual assessment of a fallow field partially situated on gentle side slope of an upland flat. A single aphyric rhyolite flake fragment and a sherd of buff-bodied stoneware (North American) were each encountered near an erosional gully (likely resulting from Hurricane Matthew). The area was visually assessed via pedestrian survey at10-m intervals and one judgmental shovel test was excavated, but no additional artifacts were found.

RECOMMENDATIONS: These artifacts lack sufficient context for further interpretation and the location is unlikely to yield additional information on Native American and historic settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Durham loamy sand, 2 to 6 percent slopes

SITE SIZE: 20 x 18 m (67 x 59 ft)

SELECTED ARTIFACTS: quartzite interior flake

COMMENTS: A single quartz interior flake was recovered while shovel testing in a wooded area containing, thick brush, planted pines, and secondary mixed trees that is situated on a gentle side slope of an upland located in the southern part of Segment CC. The artifact was located in Zone 1 of a positive shovel test. Radial shovel tests were excavated 15-m intervals, but no additional material was recovered.

RECOMMENDATIONS: This artifact lacks sufficient context for further interpretation and the location is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

Segment DD (STIP R-2829)	
Length	937.34 m (3,075.27 ft)
Area	18.52 ha (45.76 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	6.83 ha (16.87 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	
Total Area with Pedestrian Transects (10-m/39-ft Interval)	.53 ha (1.3 acres)
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	7.83 ha (19.36 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	3.33 ha (8.23 acres)
Total # of Shovel Tests	105
Total # Sites Documented	1
Total # Isolated Finds Documented	1

Table 4.3-80: Segment DD Survey Summary.

Segment DD forms something of a southeastward extension of the project corridor, extending approximately 937.34 m (3,075.27 ft) southeast of Escondito Farm Road near its intersection with White Oak Road (see Figure 4.3-1c). The southeastern boundary of the segment is an arbitrary line and does not abut another segment. Segment DD overlaps White Oak Road for a length of approximately 475 m (1,557 ft). Soils in Segment DD are predominantly Wagram, Wedowee, and Appling soils. The most extensive soil unit is Wagram loamy sand, 0 to 6 percent slopes, which covers about 44 percent of the segment. Wagram soils are classified as somewhat

excessively drained and Wedowee and Appling soils are classified as well-drained. Although the segment is not large compared to others in the project, a high percentage of the segment area could be shovel tested, where not disturbed. This was due to only about 40 percent of the segment being coded as moderately eroded and no poorly drained land or excessive slope was present. At the time of the survey, ground cover in Segment DD consisted of woods (including farmed timber), fallow agricultural fields on both sides of White Oak Road, a recent housing development, and other residential lots. Ground surface visibility was around 15 percent in the fallow field east of White Oak Road and zero percent elsewhere in Segment DD. The housing development is located at the southern end of the segment. This area is disturbed. An artificial pond about 0.33 ha (0.81 acres) in size is located at the head of a drainage at the northern end of the segment. The landscape of Segment DD is relatively level, save for the deeply incised drainage below the pond. Survey consisted of visual inspection at 30-m (98-ft) intervals of areas that were coded as eroded, and shovel testing at 30-m (98-ft) across the remainder of the segment, where not disturbed. During survey of the fallow field on the east side of White Oak Road, cultural material was encountered both in shovel tests and on the surface. Subsequent to shovel testing, surface survey was conducted in this field at 10-m (33-ft) intervals, but very little additional cultural material was recovered in this manner. Survey resulted in the identification of one archaeological site and one isolated find in Segment DD (see Figure 4.3-2c).

SITE NUMBER: 31WA2032

SITE TYPE: Native American lithic scatter: Early Archaic

SOIL TYPE: Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 81 x 47 m (266 x 155 ft)

SELECTED ARTIFACTS: aphyric rhyolite miniature version of Palmer Corner Notched point, aphyric rhyolite indeterminate point tip, quartz possible graver/perforator, metavolcanic bifacial thinning flakes, aphyric rhyolite interior flake, metavolcanic interior flakes, plagioclase porphyritic rhyolite interior flake, quartz interior flakes, quartzite interior flakes **COMMENTS:** The site was recovered during shovel testing and the visual assessment of a fallow field situated on an upland flat east of White Oak Road (Figure 4.3-167 and 4.3-168). The site is approximately 110 m north of 31WA2033. The artifact assemblage (n=17) derived from the surface and seven positive shovel tests excavated at the site (Table 4.3-81). The surface collection includes an aphyric rhyolite indeterminate point tip, a quartz possible graver/perforator, a metavolcanic bifacial thinning flake, a plagioclase porphyritic rhyolite interior flake, three quartz interior flakes, and two quartzite interior flakes. The materials recorded from Zone 1 of the positive shovel tests includes two metavolcanic bifacial thinning flakes, four metavolcanic interior flakes, and a quartz interior flakes. Zone 2 of Shovel Test 3 yielded an aphyric rhyolite miniature version of Palmer Corner Notched point (Figure 4.3-169). Palmer Corner Notched points date to the Early Archaic period (Ward and Davis 1999:51-53). The point could have been redeposited in Zone 2 from Zone 1 through bioturbation or graviturbation (Peterson and Mohler 2002). The typical soil profile of the site contains two zones with Zone 1 a yellowish brown (10YR 6/4) sandy loam plow zone approximately 25 cm in thickness, and Zone 2 a yellow (10YR 7/6) sandy E-horizon.

RECOMMENDATIONS: Given the low artifact density and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Piedmont region of North Carolina. This site is recommended not eligible for the NRHP under Criteria A, B, C, or D.



Figure 4.3-167: Map of Site 31WA2032. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-168: View of Site 31WA2032, Looking North.



Figure 4.3-169: Miniature Palmer Corner Notched Point from 31WA2032 (Acc.# 2017.0157.03).

Object	Count
Aphyric Rhyolite Minature Version of Palmer Corner Notched Point	1
Aphyric Rhyolite Indeterminate Point Tip	1
Quartz Possible Graver/Perforator	1
Metavolcanic Bifacial Thinning Flake	3
Aphyric Rhyolite Interior Flake	1
Metavolcanic Interior Flake	3
Plagioclase Porphyritic Rhyolite Interior Flake	1
Quartz Interior Flake	4
Quartzite Interior Flake	2
Total	17

Table 4.3-81: Summary of Artifacts Recovered from 31WA2032.

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 18 x 14 m (58 x 47 ft)

SELECTED ARTIFACTS: aphyric rhyolite interior flake

COMMENTS: A single aphyric rhyolite interior flake was recovered while shovel testing in a secondary mixed forest situated on a saddle between two upland flats in the center of Segment DD. The flake derived from Zone 1 of a positive shovel test. Radial shovel tests, excavated to the north and east at 15-m intervals, yielded no additional material. The location of White Oak Road and buried utilities precluded the excavation of radial shovel tests to the south and west. **RECOMMENDATIONS:** This artifact lacks sufficient context for further interpretation and the location is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

Segment EE (STIP R-2829)	
Length	720.52 m (2,363.92 ft)
Area	35.57 ha (87.91 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	9.44 ha (23.32 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	1.24 ha (3.07 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	17.50 ha (43.25 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	7.39 ha (18.27 acres)

Table 4.3-82: Segment EE Survey Summary.

Total # of Shovel Tests	266
Total # Sites Documented	3
Total # Isolated Finds Documented	3

Segment EE, which is 720.52 m (2,363.92 ft) long, begins at White Oak Road and Escondito Farm Road in the south and extends northeast to an east-west property line southwest of White Oak Creek (see Figure 4.3-1c). The segment extends along White Oak Road for a distance of 790 m (2,591 ft) northwest from Escondito Farm Road. On the north side of White Oak Road, there is an extension of the segment 670 m (2,197 ft) long that curves east to join Raynor Road. Segment EE intersects previously recorded site 31WA4. The boundary of 31WA4 is very large as the exact location of it is not known but may be somewhere within this marked polygon. Appling sandy loam covers about three-quarters of Segment EE, and the most extensive soil unit is Appling sandy loam, 2 to 6 percent slopes. Other soils present include Wagram loamy sand, Louisburg loamy sand, and Wedowee sandy loam. Appling and Wedowee soils are classified as well-drained, and Wagram and Louisburg soils are classified as somewhat excessively drained. More than half of the segment was not coded as eroded, slope, or poorly drained and could be shovel tested, where possible. The landscape is relatively level near White Oak Road and Raynor Road, but slopes down to the north and east towards White Oak Creek. At the time of the survey, ground cover in Segment EE consisted of woods, very recently logged areas, and residential lots. Ground surface visibility was low, except in the very recently logged areas, although these areas were disturbed. Survey consisted of shovel testing un-coded areas at 30-m (98-ft) intervals and visual inspection at 30-m (98-ft) intervals of areas that were coded as eroded, wet, and poorly drained. Survey in the recently logged areas was hampered by disturbance from logging activities and safety concerns regarding the downed logs and branches. Survey resulted in the identification of three archaeological sites and three isolated finds in Segment EE (see Figure 4.3-2c). The largest site, 31WA2039&2039**, was located within the extension between White Oak Road and Raynor Road. Sites 31WA2035, 31WA2037, 31WA2038, 31WA2039&2039** are located within the boundaries of previously recorded site 31WA4, although no evidence of a burial mound reported for 31WA4 was encountered during the survey.

SITE NUMBER: 31WA2034

SITE TYPE: Native American scatter: Early to Middle Woodland *SOIL TYPE:* Appling sandy loam, 10 to 15 percent slopes

SITE SIZE: 54 x 45 m (176 x 147 ft)

SELECTED ARTIFACTS: fabric-impressed Native American Yadkin series ceramic, Native American possible Badin/Yadkin series ceramics, indeterminate Native American ceramics, quartz indeterminate stemmed point, quartz bifacial thinning flake, quartz interior flakes, quartz interior flakes, quartz shatter, quartzite shatter

COMMENTS: This site was identified while shovel testing in a wooded area situated on a gentle side slope just south of a deeply cut drainage (Figures 4.3-170 and 4.3-171). The site assemblage (n=34) derived from Zones 1, 2, and 3 of positive shovel tests, and Zones 1, 2, 3, and 4, of a test unit excavated at the site. The material recovered from Zone 1 (A-horizon) of positive shovel tests includes a quartz indeterminate stemmed point (Figure 4.3-172), a quartz bifacial thinning flake, and a quartzite interior flake. The material recovered from Zone 2 (E-horizon) of positive shovel tests includes a fabric-impressed fine- to medium-sand-tempered

Native American Yadkin series ceramic sherd, two very coarse sand-tempered possible Badin/Yadkin Series ceramic sherds, a coarse sand-tempered indeterminate ceramic sherd, a quartz interior flake, a quartzite interior flake, and six pieces of quartzite shatter. The material recovered from Zone 3 (subsoil) of positive shovel tests includes a very coarse sand-tempered Native American Yadkin series ceramic body sherd, four medium- to coarse-sand-tempered indeterminate ceramic body sherds, and two interior quartzite flakes. The fine- to medium-sandtemper ceramic sherd recovered from Zone 2 of a positive test may represent a variation on the typical Yadkin series found on many sites in the area, or may be related to the sand-tempered Badin series (Figure 4.3-173). The Yadkin series dates to the Middle Woodland period between approximately 500 B.C. and 800 A.D., while the Badin series may date to the Early Woodland period starting around 1000 B.C. but is not well understood (Coe 1964:27-32; Ward and Davis 1999:80-84).

A three-zone soil profile was revealed during shovel testing at the site: Zone 1, a brown (10YR 4/3) silt loam A-horizon approximately 13 cm in thickness; Zone 2, a brownish yellow (10YR 6/6) sandy E-horizon approximately 36 cm in thickness; and Zone 3, a light brownish yellow (10YR 6/8) sandy clay subsoil. All three zones contained evidence of bioturbation from roots.

IN DEPTH EVALUATION: Based on the presence of Native American ceramics located in Zones 2 and 3 of positive shovel tests at the site, a 1-x-1-m test unit was excavated to verify the density and integrity of potentially intact buried deposits. The unit was placed between Shovel Tests 7 and 9, since these two tests yielded the highest concentration of ceramics. No features were encountered during the excavation of this unit. The unit yielded 13 artifacts (Table 4.3-83). Zone 1 of the unit contained three interior quartz flakes and a quartzite interior flake. Zone 2 of the unit contained only a piece of quartz shatter. Zone 3 of the test contained five medium- to coarse-sand-tempered net-impressed indeterminate ceramic body sherds, which likely all resulted from the same vessel (Figure 4.3-174). Zone 4 of the test contains a medium- to coarse-sandtempered indeterminate ceramic body sherd. The unit contains a four-zone soil profile with Zone 1 a very dark brown (10YR 2/2) sandy loam A-Horizon 10 cm in thickness, Zone 2 a gravish brown (10YR 5/2) sandy loam E-Horizon that averaged 12 cm in thickness, Zone 3 a dark grayish brown (10YR 4/2) sandy loam possible buried A-Horizon (about 12 cm in thickness), and Zone 4 a pale yellow (5YR 7/4) sandy subsoil. All four zones had some evidence of bioturbation from roots (Figures 4.3-175 and 4.3-176). The assemblage is summarized in Table 4.3-84.

Object	Zone/Level	Count	Percentage in Test Unit
Quartz Interior Flake	1/1	3	23.08%
Quartzite Interior Flake	1/1	1	7.69%
Quartzite Interior Flake	2/1	2	15.38%
Quartz Shatter	2/1	1	7.69%
Indeterminate NA Ceramic	3/1	5	38.46%
Indeterminate NA Ceramic	4/1	1	7.69%
Total		13	100.00%

Table 4.3-83: Summary of Artifacts Recovered from Test Unit 1 at 31WA2034, by Zone and Level.



Figure 4.3-170: Map of Site 31WA2034. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-171: View of Site 31WA2034, Looking East.



Figure 4.3-172: Indeterminate Stemmed Point from 31WA2034 (Acc.# 2017.0159.01).



Figure 4.3-173: Yadkin Fabric Impressed Body Sherd from 31WA2034, Possible Badin or Yadkin Series (Acc.# 2017.0159.03).



Figure 4.3-174: Net Impressed Sherds from 31WA2034, Indeterminate Series (Acc.# 2017.0159.11).
Object	Count
Native American A Yadkin Series Ceramic	3
Native American Possible Badin/Yadkin Series Ceramic	1
Indeterminate NA Ceramic	11
Quartz Indeterminate Stemmed Point	1
Quartz Bifacial Thinning Flake	1
Quartz Interior Flake	4
Quartzite Interior Flake	7
Quartz Shatter	1
Quartzite Shatter	5
Total	34

 Table 4.3-84:
 Summary of Artifacts Recovered from 31WA2034.

The presence of only two lithic source materials present in assemblage suggests that this site may have been a single occupation.

RECOMMENDATIONS: While this site had deep deposits in four zones, the stratigraphic integrity is uncertain. There is a very modest concentration of Native American ceramics, especially within Zone 3, but the overall low density of artifacts, small site dimension, and lack of evidence for intact features suggest that there is little potential for additional information on the Early or Middle Woodland period inhabitants of the Piedmont region of North Carolina. 31WA2034 does not appear eligible for the NRHP under Criterion D. This site is recommended as not eligible for the NRHP under Criterion D, and also Criteria A, B, or C.

SITE NUMBER: 31WA2035

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Appling sandy loam, 6 to 10 percent slopes

SITE SIZE: 15 x 12 m (48 x 40 ft)

SELECTED ARTIFACTS: quartz interior flakes

COMMENTS: This isolated find was recovered while shovel testing in a secondary mixed forest situated on a bench in the center of Segment EE. Two quartz interior flakes were recorded from Zone 2 of the same positive shovel test. Radial shovel tests, excavated in directions at 15-m intervals, yielded no additional material.

RECOMMENDATIONS: These artifacts lack sufficient context for further interpretation and the location is unlikely to provide additional information on Native American settlement of the Central Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2036

SITE TYPE: Native American isolated find: Middle Woodland

SOIL TYPE: Appling sandy loam, 6 to 10 percent slopes

SITE SIZE: 17 x 15 m (57 x 50 ft)

SELECTED ARTIFACTS: Native American Yadkin series ceramic

COMMENTS: A single Native American Yadkin series quartz-tempered ceramic body sherd was recorded during shovel testing in a secondary mixed forest on the gentle side slope of a bench that slopes towards White Oak Creek, 115 m east of 31WA2035. The artifact was recovered from Zone 1 of a positive shovel test. Radial shovel tests were excavated in four directions at 15-m intervals yet yielded no additional material. The Yadkin series dates to the



Figure 4.3-175: Site 31WA2034, Test Unit 1, Sketch of North Profile.



Figure 4.3-176: 31WA2034, Test Unit 1, Photograph of North Profile.

directions at 15-m intervals yet yielded no additional material. The Yadkin series dates to the Middle Woodland period between approximately 500 B.C. and 800 A.D (Coe 1964:27-32; Ward and Davis 1999:80-84).

RECOMMENDATIONS: The isolated find lacks sufficient context for further interpretation and is unlikely to provide additional information on Native American settlement of the Central Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2037

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Appling fine sandy loam, 2 to 6 percent slopes

SITE SIZE: 18 x 16 m (59 x 52 ft)

SELECTED ARTIFACTS: plagioclase-quartz porphyritic rhyolite interior flake *COMMENTS:* A single plagioclase-quartz porphyritic rhyolite interior flake was recovered while shovel testing in a grassy pasture situated on the southern edge of an upland flat within the south portion of Segment EE, along White Oak Road. The flake derived from Zone 1 of a positive shovel test. Radial shovel tests were excavated to the north, west, and east at 15-m intervals but yielded no additional material. Radials were not excavated to the south due to the location of White Oak Road.

RECOMMENDATIONS: This artifact lacks sufficient context for further interpretation and is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2038

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Wagram-Troup sands, 0 to 4 percent slopes

SITE SIZE: 78 x 16 m (256 x 52 ft)

SELECTED ARTIFACTS: metavolcanic bifacial thinning flake, quartz bifacial thinning flake, aphyric rhyolite interior flake, metavolcanic interior flakes, quartz interior flakes

COMMENTS: The site was identified while shovel testing in a grassy pasture situated in an upland flat at the center of the western extension of Segment EE, just to the west of Raynor Road (Figures 4.3-177 and 4.3-178). The site assemblage (n=9) was recovered from Zones 1 and 2 of the three positive shovel tests. Zone 1 of Shovel Test 9 contained a metavolcanic bifacial thinning flake, a metavolcanic interior flake, and three quartz interior flakes. Zone 2 of the same positive shovel test contained a single metavolcanic interior flake. Zone 2 of Shovel Test 1 vielded an aphyric rhyolite interior flake. Shovel Test 8, which exhibited signs of disturbance, contained a quartz bifacial thinning flake and a quartz interior flake in a buried Zone 2. Like Shovel Test 8, a few other shovel tests at the site reveal subsurface disturbances, especially along the eastern edge of the site (with a layer of fill burying Zone 2). However, the majority of shovel test at the site lacked signs of disturbance and revealed a three-zone soil profile: Zone 1, a brown (10YR 4/3) coarse sandy loam A-horizon approximately 20 cm in thickness; Zone 2, an olive yellow (2.5Y 6/6) sandy E-horizon approximately 25 cm in thickness; Zone 3, a strong brown (7.5YR 5/8) sandy clay subsoil. A graded area exhibiting subsoil at the surface precluded the excavation of radial shovel tests to the south. The site is approximately 50 m east of 31WA2039&2039** and the proximity of the two sites suggests they may have been part of the same site.

RECOMMENDATIONS: Given the low artifact density, lack of diagnostic artifacts, and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Central Piedmont region of North Carolina. This site is recommended not eligible for the NRHP under Criteria A, B, C, or D.

STATE SITE NUMBER: 31WA2039&2039**

SITE TYPE: Native American lithic scatter: Early to Late Archaic; Historic isolated find: nineteenth to mid twentieth centuries

SOIL TYPE: Wagram-Troup sands, 0 to 4 percent slopes

SITE SIZE: 163 x 119 m (535 x 391 ft)

SELECTED ARTIFACTS: metavolcanic Big Sandy Side Notched point, quartz Savannah River Stemmed point, aphyric rhyolite indeterminate point tip, metavolcanic indeterminate point mid-section, plagioclase porphyritic rhyolite late stage biface, plagioclase-quartz porphyritic rhyolite retouched flake, quartz porphyritic rhyolite retouched flake, aphyric rhyolite bifacial thinning flakes, metavolcanic bifacial thinning flakes, plagioclase porphyritic rhyolite bifacial thinning flakes, plagioclase-quartz porphyritic rhyolite bifacial thinning flake, quartz bifacial thinning flakes, aphyric rhyolite interior flakes, metavolcanic interior flakes, plagioclase porphyritic rhyolite interior flake, plagioclase-quartz porphyritic rhyolite interior flake, quartz interior flakes, quartz porphyritic rhyolite interior flakes, quartzite interior flakes, quartz shatter, quartzite tested cobble, bone fragment, edged whiteware, hand-painted whiteware, brick **COMMENTS:** This large multicomponent site was encountered while shovel testing in an area of young planted pines situated on a high saddle between two ridge tops, just west of a large recreational field and north of White Oak Road (see Figures 4.3-177 and 4.3-179). The site assemblage (n=401) was recovered from Zones 1 and 2 of 41 positive shovel tests and three test units. The exception is a metavolcanic flake fragment that was located in Zone 4 of Shovel Test 30. The typical soil profile at the site, revealed through shovel testing, contains three zones: Zone 1, a brown (10YR 5/3) silty sand plow zone approximately 26 cm in thickness; Zone 2, a light vellowish brown (2.5Y 6/4) sandy E-horizon approximately 40 cm in thickness; and Zone 3, a yellowish brown (10YR 5/6) sandy clay loam subsoil.

The small historic component of the site was located in the plow zone of two positive shovel tests and contains only two whiteware fragments (one shell-edged and the other hand-painted). The Native American artifacts located while shovel testing most notably include a quartz Savannah River Stemmed point recovered from the plow zone of Shovel Test 69 (Figure 4.3-180), a metavolcanic Big Sandy Side-Notched point recovered from Zone 2 of Shovel Test 45 (Figure 4.3-181), an aphyric rhyolite indeterminate point from Zone 2 of Shovel Test 43, and a metavolcanic indeterminate point from the plow zone of Shovel Test 54. Big Sandy Side-Notched points date to the Early Archaic period (Justice 1987:61; Hranicky and Painter 1991), while Savannah River Stemmed points are associated with the Late Archaic period (Coe 1964:44-45).

IN DEPTH EVALUATION: Three 1-x-1-m test units were excavated based on the moderate density of artifacts and the presence of diagnostic material beneath the plow zone. Test Unit 1 was excavated between Shovel Tests 68 and 71, as these two shovel tests recovered the largest quantity of lithic debitage at the site. Test Unit 2 was excavated near Shovel Tests 6, 96, and 71, which was the location of the second highest concentration of lithics. Test Unit 3 was excavated near Shovel Tests 8, 45, and 46. This final excavation location contained a lithic concentration



Figure 4.3-177: Map of Site 31WA2038 and 31WA2039&2039**. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-178: View of Site 31WA2038, Looking East.



Figure 4.3-179: View of Site 31WA2039&2039**, Looking East.



Figure 4.3-180: Savannah River Stemmed Point from 31WA2039&2039** (Acc.# 2017.0164.42).



Figure 4.3-181: Big Sandy Side Notched Point from 31WA2039&2039** (Acc.# 2017.0164.29).



Figure 4.3-182: Site 31WA2039&2039**, Test Unit 1, Sketch of East Profile.



Figure 4.3-183: 31WA2039&2039**, Test Unit 1, Photograph of East Profile.



Figure 4.3-184: Site 31WA2039&2039**, Test Unit 2, Sketch of North Profile.



Figure 4.3-185: 31WA2039&2039**, Test Unit 2, Photograph of North Profile.

beneath the plow zone, which may indicate buried intact deposits in this area—possibly relating to colluvial deposition from the adjacent ridge landforms.

Test Unit 1 recovered 169 lithic artifacts (Table 4.3-85). The materials recovered reflect those located during shovel testing at the site. Excavation of the unit revealed a three-zone soil profile: Zone 1, a brown (10YR 5/3) sandy loam plow zone 49 cm in thickness; Zone 2, a yellowish brown (10YR 6/4) sandy E-horizon 45 cm in thickness containing dark organic banding; and Zone 3, a yellowish brown (10YR 5/46) sand clay subsoil mottled with brownish yellow (10YR 6/8) clay. The artifact distribution was split evenly between Zones 1 and 2 of the test unit (Table 4.3-83). Zone 2, Level 4 of the unit yielded the largest quantity of artifacts. Zone 2 of the test exhibited the typical pattern of diminishing artifact density with increasing depth. Test Unit 1 had no features, and the only sign of disturbance appeared to be from bioturbation and plowing (Figures 4.3-182 and 4.3-183).

Test Unit 2 recovered 41 lithic artifacts (Table 4.3-86). The materials recovered reflect those located during shovel testing at the site. Excavation of the unit revealed a three-zone soil profile: Zone 1, a light yellowish brown (10YR 6/4) loamy sand plow zone 22 cm in thickness; Zone 2, a very pale brown (10YR 7/4) sandy loam E-horizon 25 cm in thickness; and Zone 3, a yellow (10YR 7/6) sandy loam continuation of the E-horizon. Test Unit 2 did not contain features and the only sign of disturbance was bioturbation and plowing (Figures 4.3-184 and 4.3-185). Zone 1 had slightly more artifacts than Zone 2, but then diminished in density with each subsequent level.

Object	Zone/Level	Count	Percentage in
			Test Unit
Metavolcanic Bifacial Thinning Flake	1/1	1	0.59%
Plagioclase Porphyritic Rhyolite Bifacial Thinning Flake	1/1	1	0.59%
Plagioclase-Quartz Porphyritic Rhyolite Bifacial Thinning Flake	1/1	1	0.59%
Metavolcanic Interior Flake	1/1	1	0.59%
Quartz Interior Flake	1/1	6	3.55%
Aphyric Rhyolite Interior Flake	1/2	2	1.18%
Metavolcanic Interior Flake	1/2	4	2.37%
Quartz Interior Flake	1/2	9	5.33%
Metavolcanic Bifacial Thinning Flake	1/3	3	1.78%
Aphyric Rhyolite Interior Flake	1/3	1	0.59%
Metavolcanic Interior Flake	1/3	2	1.18%
Quartz Interior Flake	1/3	8	4.73%
Metavolcanic Bifacial Thinning Flake	1/4	13	7.69%
Quartz Bifacial Thinning Flake	1/4	1	0.59%
Metavolcanic Interior Flake	1/4	7	4.14%
Quartz Interior Flake	1/4	22	13.02%
Metavolcanic Bifacial Thinning Flake	2/1	3	1.78%
Plagioclase Porphyritic Rhyolite Bifacial Thinning Flake	2/1	1	0.59%
Quartz Bifacial Thinning Flake	2/1	2	1.18%
Aphyric Rhyolite Interior Flake	2/1	1	0.59%

Table 4.3-85: Summary of Artifacts Recovered from Test Unit 1 at 31WA2039&2039**, by Zone and Level.

Metavolcanic Interior Flake	2/1	10	5.92%
Quartz Interior Flake	2/1	20	11.83%
Metavolcanic Bifacial Thinning Flake	2/2	4	2.37%
Quartz Interior Flake	2/2	7	4.14%
Metavolcanic Bifacial Thinning Flake	2/3	2	1.18%
Aphyric Rhyolite Interior Flake	2/3	1	0.59%
Metavolcanic Interior Flake	2/3	13	7.69%
Quartz Interior Flake	2/3	8	4.73%
Metavolcanic Bifacial Thinning Flake	2/4	2	1.18%
Metavolcanic Interior Flake	2/4	4	2.37%
Quartz Interior Flake	2/4	6	3.55%
Metavolcanic Interior Flake	2/5	1	0.59%
Quartz Interior Flake	2/5	2	1.18%
Total		169	100.00%

Table 4.3-86: Summary of Artifacts Recovered from Test Unit 2 at 31WA2039&2039**, by Zone and Level.

Object	Zone/Level	Count	Percentage in Test Unit
Metavolcanic Interior Flake	1/1	4	9.76%
Quartz Interior Flake	1/1	4	9.76%
Metavolcanic Interior Flake	1/2	5	12.20%
Quartz Interior Flake	1/2	3	7.32%
Quartz Shatter	1/2	1	2.44%
Metavolcanic Interior Flake	1/3	2	4.88%
Plagioclase-Quartz Porphyritic Rhyolite Interior Flake	1/3	1	2.44%
Quartz Interior Flake	1/3	5	12.20%
Plagioclase-Quartz Porphyritic Rhyolite Retouched Flake	2/1	1	2.44%
Quartz Interior Flake	2/1	7	17.07%
Quartzite Interior Flake	2/1	1	2.44%
Metavolcanic Interior Flake	2/2	1	2.44%
Quartz Interior Flake	2/2	2	4.88%
Quartz Interior Flake	2/2 plow scar	1	2.44%
Quartz Interior Flake	2/3	3	7.32%
Total		41	100.00%

Test Unit 3 yielded 83 lithic artifacts (Tables 4.3-87). Excavation of the unit revealed a twozone soil profile: Zone 1, a brown (10YR 5/3) sandy loam plow zone 15 cm thick and Zone 2, a light yellowish brown (10YR 6/4) sand E-horizon. Test Unit 3 had no features and the only sign of disturbance was bioturbation and plowing (Figures 4.3-186 and 4.3-187). Zone 2 of the test contained three times as many artifacts as Zone 1 of the test. Zone 2, Levels 1 to 3 of the test contained about 20 artifacts, while the number of artifacts drastically decreased to just two items in Level 4 of the same zone.

The lithic artifacts recovered for this unit were of quartz, quartzite, and aphyric rhyolite, and metavolcanic materials, quartz making up the majority of the assemblage. The lithic assemblage included interior and bifacial thinning flakes and indeterminate lithic fragments, with interior

flakes the most represented. Table 4.3-88 is a summary of all the artifacts recovered from the site.

Object	Zone/Level	Count	Percentage in Test
			Unit
Metavolcanic Bifacial Thinning Flake	1/1	1	1.20%
Quartz Bifacial Thinning Flake	1/1	2	2.41%
Metavolcanic Interior Flake	1/1	1	1.20%
Quartz Interior Flake	1/1	7	8.43%
Aphyric Rhyolite Interior Flake	1/2	1	1.20%
Metavolcanic Interior Flake	1/2	2	2.41%
Quartz Interior Flake	1/2	6	7.23%
Metavolcanic Bifacial Thinning Flake	2/1	1	1.20%
Aphyric Rhyolite Interior Flake	2/1	1	1.20%
Quartz Interior Flake	2/1	17	20.48%
Quartzite Interior Flake	2/1	1	1.20%
Quartzite Fragment	2/1	1	1.20%
Metavolcanic Interior Flake	2/2	1	1.20%
Quartz Interior Flake	2/2	17	20.48%
Quartzite Interior Flake	2/2	3	3.61%
Quartz Interior Flake	2/3	18	21.69%
Quartzite Interior Flake	2/3	1	1.20%
Quartz Interior Flake	2/4	2	2.41%
Total		83	100.00%

Table 4.3-87: Summary of Artifacts Recovered from Test Unit 3 at 31WA2039&2039**, by Zone and Level.

Table 4.3-88: Summary of Artifacts Recovered from 31WA2039&2039**.

Object	Count
Metavolcanic Big Sandy Side Notched Point	1
Quartz Savannah River Stemmed Point	1
Aphyric Rhyolite Indeterminate Point Tip	1
Metavolcanic Indeterminate Point Midsection	1
Plagioclase Porphyritic Rhyolite Late Stage Biface	1
Plagioclase-Quartz Porphyritic Rhyolite Retouched Flake	1
Quartz Porphyritic Rhyolite Retouched Flake	1
Aphyric Rhyolite Bifacial Thinning Flake	5
Metavolcanic Bifacial Thinning Flake	38
Plagioclase Porphyritic Rhyolite Bifacial Thinning Flake	3
Plagioclase-Quartz Porphyritic Rhyolite Bifacial Thinning Flake	1
Quartz Bifacial Thinning Flake	5
Aphyric Rhyolite Interior Flake	12
Metavolcanic Interior Flake	89
Plagioclase Porphyritic Rhyolite Interior Flake	1
Plagioclase-Quartz Porphyritic Rhyolite Interior Flake	1
Quartz Interior Flake	218

Zone 1	Ground Surface	31WA2039&2039** (31WA4) Test Unit 3 North Profile
Zone 2	Key: —— Dist IIII Une	tinct Boundary excavated
	Centimeters 0 10 Inches 0 5	2 0
Zone 1 – 10YR 5/3 Brown Sandy Loam (Plow Zone) Zone 2 – 10YR 6/4 Light Yellowish Brown Sand (Possible E-horizon)		

Figure 4.3-186: Site 31WA2039&2039**, Test Unit 3, Sketch of North Profile.



Figure 4.3-187: 31WA2039&2039**, Test Unit 3, Photograph of North Profile.

Quartz Porphyritic Rhyolite Interior Flake	3
Quartzite Interior Flake	6
Metavolcanic Flake Fragment	1
Quartz Shatter	2
Quartz Fragment	2
Quartzite Fragment	1
Quartzite Tested Cobble	1
Bone Fragment	1
Whiteware	2
Brick	2
Total	401

RECOMMENDATIONS: Test Unit 1 yielded the largest quantity of lithic items, and the transition between Zones 1 and 2 contained a slight increase in material. Artifact density diminished with depth, suggesting bioturbation in the lower zones. Test Unit 2 yielded only 49 lithic items but contained the same approximate density of material in the transition between Zones 1 and 2. Test Unit 3 yielded 84 lithic items, with more than three fourths of the artifacts deriving from Zone 2. These patterns are reflected in the shovel tests, with an equal amount of artifacts deriving from Zones 1 and 2. Despite the plowing disturbance in the first soil stratum at the site, there is material below the plow zone, and there could be colluvial deposition related to the sites landform position in a saddle. However, the lack of temporally discrete deposits suggests that the site has little potential to yield additional information on Early Archaic, Late Archaic, or historic settlement of the Central Piedmont region of North Carolina. Therefore, it is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

Segment FF (STIP R-2829)	
Length	1,143.65 m (3,752.13 ft)
Area	34.98 ha (86.44 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	4.33 ha (10.71 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	11.68 ha (28.85 acres)
Total Area Shovel Tested with Judgmental Test Placement	6.90 ha (17.05 acres)
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	12.07 ha (29.83 acres)
Total # of Shovel Tests	234
Total # Sites Documented	3
Total # Isolated Finds Documented	3

 Table 4.3-89:
 Segment FF Survey Summary.

Segment FF is 1,143.65 m (3,752.13 ft) long and extends from an east-west property line (where it abuts Segment EE) northward to a utility corridor between White Oak Creek and Business US 70 (see Figure 4.3-1c and d). The segment spans both sides of White Oak Creek. North of the creek, the Segment FF extends into a property used for transmission towers and other communications equipment. Soils in Segment FF were predominantly Wedowee sandy loam and Wehadkee and Bibb soils, with Louisburg loamy sand, Altavista fine sandy loam, Appling sandy loam, and Wake-Wateree complex soils also present. The most extensive soil unit in the segment is Wehadkee and Bibb soils, 0 to 2 percent slopes, frequently flooded. Wedowee soils are classified as well-drained, Wehadkee and Bibb soils are classified as poorly drained, and the other soil types in the segment range from moderately well drained to somewhat excessively well drained. From the southern edge of Segment FF, the landscape slopes down sharply to White Oak Creek. The slope on the north side of the creek is less steep. The percentage of land coded as moderately eroded is relatively low in Segment FF, and eroded land is only mapped north of the creek. About a third of the segment was coded as poorly drained or wet. These areas are located along White Oak Creek and along a wetland at the western edge of the segment. At the time of the survey, ground cover in Segment FF consisted of recently logged areas, woods, and wetlands. Ground surface visibility in Segment FF was low, except in the very recently logged areas, although these areas were disturbed. The logging south of White Oak Creek had occurred very recently at the time of the survey and, with the exception of two grassy meadows, shovel testing was extremely limited due to the disturbed nature of the landscape and safety concerns regarding the many downed logs and branches. Shovel testing in the meadows was systematic and occurred at 30-m (98-ft) intervals, but shovel tests in the logged areas were excavated at irregular intervals, where possible. Despite the sparse nature of these shovel tests; some cultural material was recovered in this manner. North of the creek, logging had occurred less recently, but the logged area was still disturbed and treacherous. Most shovel testing in Segment FF occurred in the woods north of the creek, where shovel tests were excavated at 30-m (98-ft) intervals. Areas that were coded as eroded, wet, and poorly drained were subject to visual inspection at 30-m (98-ft) intervals. Survey resulted in the identification of three archaeological sites and three isolated finds in Segment FF (see Figure 4.3-2d).

SITE NUMBER: 31WA2040

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Wedowee sandy loam, 2 to 6 percent slopes

SITE SIZE: 47 x 19 m (156 x 62 ft)

SELECTED ARTIFACTS: plagioclase porphyritic rhyolite point tip, quartz retouched flake, metavolcanic bifacial thinning flake, metavolcanic flake fragment

COMMENTS: This isolated find was recovered during shovel testing in a secondary mixed forest on the southern edge of an upland flat near the center of Segment FF. Four artifacts were recovered from three positive shovel tests, with all but one of these items (a metavolcanic flake fragment) deriving from Zone 2 of the tests. These artifacts located in Zone 2 of the positive tests include a plagioclase porphyritic rhyolite point tip, a metavolcanic bifacial thinning flake, and a quartz retouched flake. The presence of these materials in Zone 2 of the positive test is likely a result of bioturbation. Radial shovel tests were excavated in four directions at 15-m intervals yet yielded no additional material.

RECOMMENDATIONS: These artifacts lacked sufficient context for further interpretation and are unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2041

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: We dowee sandy loam, 2 to 6 percent slopes

SITE SIZE: 35 x 20 m (116 x 66 ft)

SELECTED ARTIFACTS: metavolcanic interior flakes

COMMENTS: A pair of metavolcanic interior flakes was encountered while shovel testing in a secondary growth mixed forest situated on a ridge toe along the northern edge of Segment F. The artifacts were recovered from two respective positive shovel tests. One flake was located in Zone 1 and the other in Zone 2 of the respective positive shovel tests. The presence of one of the artifacts in Zone 2 of the positive test is likely a result of bioturbation. Radial shovel tests were excavated in four directions at 15-m intervals but yielded no additional material.

RECOMMENDATIONS: This pair of artifacts lack sufficient context for further interpretation and the location is unlikely to yield additional information on Native American settlement of the Central Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2042

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Wedowee sandy loam, 2 to 6 percent slopes

SITE SIZE: 82 x 26 m (269 x 85 ft)

SELECTED ARTIFACTS: metavolcanic bifacial thinning flake, plagioclase-quartz porphyritic rhyolite bifacial thinning flake, metavolcanic interior flake, quartz interior flakes

COMMENTS: This small lithic scatter was identified while shovel testing in a mixed secondary forest situated on a gentle side slope of the same upland as 31WA2041 and 31WA2043 (Figure 4.3-188 and 4.3-189). The artifacts recovered from the site (n=5) include a metavolcanic bifacial thinning flake and a plagioclase-quartz porphyritic rhyolite bifacial thinning flake from Zone 2 of two respective positive shovel tests, and a metavolcanic interior flake and two quartz interior flakes from Zone 1 of three respective positive shovel tests. The typical soil profile at the site contained three zones: Zone 1, a dark yellowish brown (10YR 4/4) sandy loam A-horizon approximately 20 cm in thickness; Zone 2, a pale brown (10YR 6/3) sandy E-horizon approximately 35 cm in thickness; Zone 3, a strong brown (7.5YR 5/8) clay subsoil.

RECOMMENDATIONS: Given the low artifact density, lack of diagnostic artifacts, and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Central Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2043

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Louisburg loamy sand, 6 to 10 percent slopes

SITE SIZE: 15 x 15 m (50 x 50 ft)

SELECTED ARTIFACTS: metavolcanic interior flake

COMMENTS: A single metavolcanic interior flake was recovered while shovel testing in a mixed secondary-growth forest situated 60 m west of 31WA2041 on a gentle side slope of the same upland landform. The flake was recovered in Zone 2 of a positive shovel test, with the location likely a result of bioturbation. Radial shovel tests excavated in four directions at 15-m intervals yielded no additional material.



Figure 4.3-188: Map of Site 31WA2042. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-189: View of Site 31WA2042, Looking Northwest.

RECOMMENDATIONS: This artifact lacks sufficient context for further interpretation and the location is unlikely to yield additional information on Native American settlement of the Central Piedmont of North Carolina. This isolated find is not eligible for the NRHP.

SITE NUMBER: 31WA2044

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Wedowee sandy loam, 6 to 10 percent slopes

SITE SIZE: 72 x 34 m (240 x 110 ft)

SELECTED ARTIFACTS: quartzite retouched flake, metavolcanic bifacial thinning flake, quartz bifacial thinning flake, metavolcanic interior flakes, quartz and quartzite interior flakes **COMMENTS:** The site was identified while shovel testing in a fallow field located on a stream terrace on the south bank of White Oak Creek, which is found in the south portion of Segment FF (Figures 4.3-190 and 4.3-191). The site assemblage (n=12) was recovered from the ground surface and six positive shovel tests (Table 4.3-90). The surface assemblage includes a quartz bifacial thinning flake, a plagioclase-quartz porphyritic rhyolite interior flake, and a quartz interior flake. Zone 1 of Shovel Test 4 contained two interior quartz flakes. The interface of Zones 1 and 2 in Shovel Test 9 yielded a plagioclase-quartz porphyritic rhyolite interior flake and a piece of quartz shatter. The interface of Zones 1 and 2 in Shovel Tests 12 and 13 contained a quartz interior flake and both a retouched quartzite flake and a quartzite interior flake, respectively. Zone 2 of Shovel Tests 1 and 3 yielded a quartz interior flake and a metavolcanic interior flake, respectively. The presence of cultural material at or near the interface of Zone 2 is likely the result of bioturbation and site deflation, and is also potentially misleading as some tests recorded a developing A-horizon atop the plow zone sequence (one of which had material below Zone 1). A typical test reflecting the history of plowing at the site had approximately 28 cm of a yellowish brown (10YR 5/4) sandy loam over a light yellowish brown (10YR 6/4) sandy clay subsoil. Radial shovel tests were not placed at 30 m from positive tests to the north and east because of heavy disturbance from current logging.

RECOMMENDATIONS: Given the low artifact density and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Central Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

Object	Count
Quartzite Retouched Flake	1
Quartz Bifacial Thinning Flake	1
Metavolcanic Interior Flake	1
Plagioclase-Quartz Porphyritic Rhyolite Interior Flake	2
Quartz Interior Flake	5
Quartzite Interior Flake	1
Quartz Shatter	1
Total	12

Table 4.3-90: Summary of Artifacts Recovered from 51 w A204	Table 4.3-90:	Summary o	of Artifacts	Recovered	from	31WA2044
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SITE NUMBER: 31WA2045

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: We dowee sandy loam, 6 to 10 percent slopes

SITE SIZE: 16 x 16 m (52 x 52 ft)

SELECTED ARTIFACTS: quartz interior flakes, quartz shatter

COMMENTS: The site was recorded during shovel testing in a recently logged mixed forest Figure 4.3-190 site map 31WA2044 (Figures 4.3-192 and 4.3-193) situated on a side slope of an upland located in the south portion of Segment FF. The site assemblage (n=9), deriving from Zones 1 and 2 of just one positive shovel test, includes six quartz interior flakes and three pieces of quartz shatter. The soil profile varies slightly within the site area with some shovel tests containing two zones, and others containing three zones. The profile of the positive shovel test at the site contained two soil zones: Zone 1, a dark yellowish brown (10YR 4/4) sandy loam Ahorizon 24 cm in thickness; and Zone 2, above a strong brown (7.5YR 4/6) coarse sandy clay subsoil. The presence of materials recovered from Zone 2 of the positive test is a result of bioturbation. Other soil disturbances at the site appear to have been caused by the recent logging of the area.

RECOMMENDATIONS: Given the low artifact density, lack of diagnostic artifacts, and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Central Piedmont region of North Carolina and does not appear eligible for the NRHP under Criteria D.

Segment GG (STIP R-2829)	
Length	892.3 m (2,927.44 ft)
Area	53.60 ha (132.32 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	6.65 ha (16.43 acres)
Eroded Soils	· · · · · · · · · · · · · · · · · · ·
Total Area with Pedestrian Reconnaissance Only	12.67 ha (31.17 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	8.24 ha (20.37 acres)
Total Area Shovel Tested with Judgmental Test Placement	.71 ha (1.75 acres)
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	25.33 ha (62.60 acres)
Total # of Shovel Tests	106
Total # Sites Documented	
Total # Isolated Finds Documented	2

Table 4.3-91: Segment GG Survey Summary.



Figure 4.3-190: Map of Site 31WA2044. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-191: View of Site 31WA2044, Looking Southwest.



Figure 4.3-192: Map of Site 31WA2045. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-193: View of Site 31WA2045, Looking Northwest.

Segment GG, which is approximately 892.3 m (2,927.44 ft) long, begins at a utility corridor and extends northeastward to Business US 70 (see Figure 4.3-1d). The segment extends east and west along Business US 70 for a total of approximately 1,819 m (5,969 ft). A portion of the segment is within a property used for television transmission towers and other communications equipment. The guy-wires for one of the transmission towers cross into the segment. Soils in Segment GG are predominantly Wedowee sandy loam, Louisburg loamy sand, Appling sandy loam, and Wehadkee and Bibb soils, with other soils present. The most extensive soil units in the segment are Wedowee sandy loam, 6 to 10 percent slopes and Louisburg loamy sand, 6 to 10 percent slopes. Louisburg soils are classified as somewhat excessively drained, Wedowee and Appling soils are classified as well-drained, and Wehadkee and Bibb soils are classified as poorly drained. The landscape across the segment is undulating. At the time of survey, the segment consisted of woods, a very recently logged area along Business US 70, an open meadow at the western end of the segment, and several disturbed residential and commercial properties. A large artificial pond overlaps Segment GG on the transmission tower property, encompassing about 1.52 ha (3.76 acres) of the segment. At the time of the survey, the pond was draining, leaving a mud flat. On the south side of the pond was a picnic area. A large hill rises to the north of the pond, and a wetland is located to the west, between the transmission tower property and a mid-twentieth century residential development. Although shovel testing was attempted in the recently logged area, it proved too disturbed to be shovel tested. Outside of this logged area, ground surface visibility was very low in the segment. Where possible, Segment GG was shovel tested in un-coded areas at 30-m (98-ft) intervals. Eroded and poorly drained areas were visually inspected at 30-m (98-ft) intervals. Survey resulted in the identification of two isolated finds in Segment GG (see Figure 4.3-2d).

SITE NUMBER: 31WA2046

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Wake-Wateree complex, 10 to 25 percent slopes, very rocky

SITE SIZE: 33 x 15 m (109 x 48 ft)

SELECTED ARTIFACTS: aphyric interior flake, metavolcanic interior flake

COMMENTS: This isolate was recorded while shovel testing in a secondary mixed forest situated on a stream terrace on the southern edge of Segment GG. Two artifacts, a metavolcanic interior flake and an aphyric rhyolite interior flake, were recovered from Zone 2 of two respective positive tests. The presence of these materials in Zone 2 of the positive test is a result of bioturbation. Radial shovel tests, excavated in four directions at 15-m intervals, yielded no additional material.

RECOMMENDATIONS: This pair of artifacts lack sufficient context for further interpretation and the location is unlikely to yield additional information on Native American settlement of the Central Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2047

SITE TYPE: Native American isolated find: unattributed *SOIL TYPE:* Wedowee sandy loam, 6 to 10 percent slopes

SITE SIZE: 15 x 15 m (50 x 50 ft)

SELECTED ARTIFACTS: plagioclase porphyritic rhyolite bifacial thinning flake, aphyric rhyolite interior flake

COMMENTS: This isolated find was recovered while shovel testing in a mixed secondarygrowth forest situated on a stream terrace just south of Business US 70 along the northern edge of Segment GG. Two artifacts, a plagioclase porphyritic rhyolite bifacial thinning flake and an aphyric rhyolite interior flake, were recovered from Zone 2 of a positive shovel test. The presence of these materials in Zone 2 of the positive test is likely the result of bioturbation. Radial shovel tests, excavated in four directions at 15-m intervals, yielded no additional material. **RECOMMENDATIONS:** This pair of artifacts lack sufficient context for further interpretation and the location is unlikely to yield additional information on Native American settlement of the Central Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

Segment HH (STIP R-2829)	
Length	671.36 m (2,202.63 ft)
Area	40.87 ha (100.97 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	5.21 ha (12.87 acres)
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	22.72 ha (56.13 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	.07 ha (.17 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	2.77 ha (6.85 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	10.10 ha (24.95 acres)
Total # of Shovel Tests	32
Total # Sites Documented	
Total # Isolated Finds Documented	

Table 4.3-92:Segment HH Survey Summary.

Segment HH, which is approximately 671.36 m (2,202.63 ft) long, extends northeastward from Business US 70 to East Garner Road (see Figure 4.3-1d). The segment extends east and west along Business US 70 for a total of approximately 1,819 m (5,969 ft), and crosses railroad tracks about 250 m (820 ft) southwest of East Garner Road. About half of Segment HH is covered by soils of the Appling series, and soils in the remainder of the segment primarily consist of Wedowee sandy loam. Numerous other soil types are present in small patches. The most extensive soil unit is Appling sandy loam, 2 to 6 percent slopes, moderately eroded. Appling and Wedowee soils are classified as well-drained. A large percentage of Segment HH was coded as moderately eroded. At the time of the survey, the ground cover primarily consisted of woods and wetland, with extensive disturbed areas along BUS US 70 and between the tracks and East Garner Road. Ground surface visibility was low. Where possible, Segment HH was shovel tested in un-coded areas at 30-m (98-ft) intervals. Eroded and poorly drained areas were visually inspected at 30-m (98-ft) intervals. No archaeological resources were recorded in Segment HH (see Figure 4.3-2d).

Segment II (STIP R-2829)	
Length	1,346.55 m (4,417.81 ft)
Area	51.69 ha (127.99 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	25.98 ha (64.19 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	.03 ha (.27 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	1.72 ha (4.25 acres)
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	17.52 ha (43.30 acres)
Total Area Shovel Tested with Judgmental Test Placement	.16 ha (.39 acres)
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	2.77 (6.85 acres)
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	3.54 ha (8.74 acres)
Total # of Shovel Tests	257
Total # Sites Documented	3
Total # Isolated Finds Documented	11

Table 4.3-93: Segment II Survey Summary.

Segment II is 1,346.55 m (4,417.81 ft) long and extends from East Garner Road northeastward to Rock Quarry Road (see Figure 4.3-1d). The segment extends a total of 1,861 m (6,104 ft) along Rock Quarry Road. One previously recorded site, 31WA787, intersects the segment in the northern extension along Rock Quarry Road. Soils in Segment II are predominantly of the Norfolk, Appling, Wedowee, and Faceville series. The most extensive soil unit in the segment is Norfolk loamy sand, 2 to 6 percent slopes. Norfolk, Appling, Wedowee, and Faceville soils are all classifieds as well-drained. Just over half of Segment II is classified as moderately eroded. At the time of the survey, the ground cover primarily consisted of woods, logged areas, and residential properties. Agricultural fields are located along Rock Quarry Road. An artificial pond encompassing about 0.28 ha (0.70 acres) is located close to East Garner Road. Survey in Segment II consisted of shovel testing at 30-m (98-ft) intervals, surface survey at 10-m (33-ft) intervals in agricultural fields, where visibility permitted, and visual inspection at 30-m (98-ft) intervals. Survey resulted in the identification of two archaeological sites, 11 isolated finds, and an extension of 31WA787&787** in Segment II (see Figure 4.3-2d).

SITE NUMBER: 31WA787&787**

SITE TYPE: Native American scatter: Middle Woodland; Historic scatter: late eighteenth century to twentieth century

SOIL TYPE: Norfolk loamy sand, 6 to 10 percent slopes, moderately eroded *SITE SIZE:* 198 x 58 m (650 x 189 ft)

SELECTED ARTIFACTS: Native American Yadkin series ceramic, metavolcanic indeterminate stemmed point, quartz indeterminate point tip, metavolcanic late stage biface, indeterminate quartzite ground stone item, quartzite decortication flake, aphyric rhyolite interior flake, metavolcanic interior flakes, plagioclase porphyritic rhyolite interior flakes, quartz interior flakes, quartz shatter, quartzite fire-cracked rock, quartz porphyritic rhyolite core, edged pearlware, hand-painted pearlware, undecorated pearlware, hand-painted whiteware, undecorated whiteware, container glass, colorless container glass, cobalt blue container glass

COMMENTS: This multicomponent, previously recorded site was relocated during the current project survey via the visual assessment of a field with excellent surface visibility situated on an upland flat (Figures 4.3-194 and 4.3-195). The artifact assemblage (n=82) was recovered from the ground surface and also the plow zone of positive shovel tests at the site (Table 4.3-94). A surface scatter was located within and beyond the previously recognized site boundary. Seven judgmental shovel tests were excavated along the long axis of the surface scatter and all were positive for cultural materials. Based on the surface scatter and the positive shovel tests, the boundary of the site was expanded 75 m to the southeast. Shovel testing revealed a three-zone soil profile at the site: Zone 1, a very dark grayish brown (10YR 3/2) silty loam plow zone approximately 20 cm in thickness; Zone 2, a pale brown (10YR 6/3) sandy E-horizon approximately 15 cm in thickness; Zone 3, a brownish yellow (10YR 6/6) sandy clay subsoil.

The Native American component of the site yielded 65 artifacts including a quartz-tempered Native American Yadkin series ceramic rim sherd, a metavolcanic indeterminate stemmed point, a quartz indeterminate point tip, a metavolcanic late stage biface, a quartzite mano fragment, a quartzite indeterminate ground stone tool, a quartzite decortication flake, two aphyric rhyolite interior flakes, 11 metavolcanic interior flakes, two plagioclase porphyritic rhyolite interior flakes, 32 quartz interior flakes, a metavolcanic fragment, three quartz fragments, a quartzite fragment, three pieces of quartz shatter, two quartzite fire-cracked rocks, and a quartz porphyritic rhyolite core (Figure 4.3-196). The Yadkin series dates to the Middle Woodland period between approximately 500 B.C. and 800 A.D (Coe 1964:27-32; Ward and Davis 1999:80-84).

The historic component of the site yielded 17 artifacts including a rim fragment of edged pearlware, a rim fragment of hand-painted pearlware, an undecorated pearlware fragment, a hand-painted whiteware fragment, an undecorated whiteware fragment, three pieces of earthenware (indeterminate), a piece of very dark olive container glass, two pieces of aqua container glass, five pieces of colorless container glass, and a piece of cobalt blue container glass (Figure 4.3-197). Undecorated and hand-painted pearlware production dates range from 1784 to 1840, and edged pearlware dates range from 1809-1831 (FMNH 2017; Noel Hume 1969). Hand-painted whiteware production dates range from the 1830s to 1860 (Mansberger 1986).

RECOMMENDATIONS: Despite the moderate artifact density and diagnostic artifacts, none of the artifacts were recovered from beneath the plow zone, suggesting that the site has been heavily disturbed by plowing and related erosion and deflation. The site therefore lacks the potential to provide additional information on Native American and historic inhabitants of the Central Piedmont region of North Carolina. This site is not recommended as eligible for the NRHP under Criteria A, B, C, and D.



Figure 4.3-194: Map of Site 31WA787&787**. Base Mapping from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-195: View of Site 31WA787&787**, Looking West.



Figure 4.3-196: Native American Artifacts from 31WA787&787**: a) Late Stage Biface (Acc.# 2017.186.01); b) Yadkin Series Ceramic Sherd (Acc.# 2017.186.01); and c) Indeterminate Stemmed Point (Acc.# 2017.186.01).



Figure 4.3-197: Historic Artifacts from 31WA787&787**: a) Edged Pearlware (Acc.# 2017.186.01); b) Hand-Painted Pearlware (Acc.# 2017.186.01); c) Very Dark Olive Green Container Glass (Acc.# 2017.186.01); d) Aqua Container Glass (Acc.# 2017.186.01); e) Pearlware (Acc.# 2017.186.01); f) Hand-Painted Whiteware (Acc.# 2017.186.01).

Object	Count
Native American Yadkin Series Ceramic	1
Metavolcanic Indeterminate Stemmed Point	1
Quartz Indeterminate Point Tip	1
Metavolcanic Late Stage Biface	1
Quartzite Mano	1
Quartzite Indeterminate Ground Stone Tool	1
Quartzite Decortication Flake	1
Aphyric Rhyolite Interior Flake	2
Metavolcanic Interior Flake	11
Plagioclase Porphyritic Rhyolite Interior Flake	2
Quartz Interior Flake	32
Metavolcanic Fragment	1
Quartz Fragment	3
Quartzite Fragment	1
Quartz Shatter	3
Quartzite Fire-Cracked Rock	2
Quartz Porphyritic Rhyolite Core	1
Dark Olive Green Container Glass	1
Aqua Container Glass	2
Cobalt Blue Container Glass	1
Colorless Container Glass	5
Pearlware	3
Whiteware	2
Indeterminate Earthenware	3
Total	82

Table 4.3-94: Summary of Artifacts Recovered from 31WA787&787**.

SITE NUMBER: 31WA2048&2048**

SITE TYPE: Native American lithic scatter: Middle Archaic; Historic scatter: nineteenth century to twentieth century

SOIL TYPE: Norfolk loamy sand, 2 to 6 percent slopes

SITE SIZE: 149 x 82 m (488 x 269 ft)

SELECTED ARTIFACTS: plagioclase porphyritic rhyolite Savannah River Stemmed point, metavolcanic indeterminate point, metavolcanic biface fragment, quartz biface fragment, quartz retouched flake, metavolcanic interior flakes, plagioclase-quartz porphyritic rhyolite interior flakes, quartz interior flakes, quartz porphyritic rhyolite interior flake, edged whiteware, transferprinted whiteware, undecorated whiteware, colorless container glass

COMMENTS: This multicomponent site is situated on the same upland flat as

31WA787&787**. It was encountered during the visual assessment of a fallow field with favorable surface visibility (Figures 4.3-198 and 4.3-199). The artifact assemblage (n=25) is summarized in Table 4.3-95. These items were recovered from the ground surface, with the exception of a metavolcanic interior flake that was recorded in Zone 4 of a positive shovel test excavated at the site. The artifacts recovered are summarized in Table 4.3-95. The soil profile of this positive test exhibited signs of disturbance. For example, Zone 2 of the test was a fill layer. The typical soil profile (revealed through the other shovel tests excavated at the site)



Figure 4.3-198: Map of Site 31WA2048&2048**. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-199: View of Site 31WA2048&2048**, Looking East.



Figure 4.3-200: Native American Artifacts from 31WA2048&2048**: a) Indeterminate Point Tip or Drill (Acc.# 2017.0173.01); b) Savannah River Stemmed Point (Acc.# 2017.0173.01).
contains three zones: Zone 1, a light olive brown (2.5Y 5/4) sandy loam plow zone approximately 27 cm in thickness; Zone 2, a brownish yellow (10YR 6/6) sandy E-horizon approximately 25 cm in thickness; Zone 3, a yellowish brown (10YR 5/8) sandy clay subsoil.

The Native American component of the site includes a plagioclase porphyritic rhyolite Savannah River Stemmed point, a metavolcanic indeterminate point tip or drill (Figure 4.3-200), a metavolcanic biface fragment, a quartz biface fragment, a quartz retouched flake, six metavolcanic interior flakes, two plagioclase-quartz porphyritic rhyolite interior flakes, six quartz interior flakes, and a quartz porphyritic rhyolite interior flake. Savannah River Stemmed points date to the Middle to Late Archaic period (Coe 1964:40-45).

The historic component of the site is represent by three fragments of whiteware (two rim fragments and a body fragment) and two pieces of colorless container glass. Whiteware production dates range from the 1830s to the present (Miller et al. 2000).

Object	Count
Plagioclase Porphyritic Rhyolite Savannah River Stemmed Point	1
Metavolcanic Indeterminate Point Tip Or Drill	1
Metavolcanic Biface Fragment	1
Quartz Biface Fragment	1
Quartz Retouched Flake	1
Metavolcanic Interior Flake	6
Plagioclase-Quartz Porphyritic Rhyolite Interior Flake	2
Quartz Interior Flake	6
Quartz Porphyritic Rhyolite Interior Flake	1
Whiteware	3
Colorless Container Glass	2
Total	25

Table 4.3-95: Summary of Artifacts Recovered from 31WA2048&2048**.

RECOMMENDATIONS: Given the low artifact density and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Central Piedmont region of North Carolina and does not appear eligible for the NRHP under Criteria A, B, C, and D.

SITE NUMBER: 31WA2049

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Norfolk loamy sand, 2 to 6 percent slopes

SITE SIZE: 156 x 61 m (513 x 200 ft)

SELECTED ARTIFACTS: metavolcanic bifacial thinning flake, quartz porphyritic rhyolite bifacial thinning flake, metavolcanic interior flakes, plagioclase porphyritic rhyolite interior flake, quartz interior flakes, aphyric rhyolite flake fragment, metavolcanic flake fragment, quartz shatter

COMMENTS: The site is situated between 31WA787&787** and 31WA2048&2048** on the same upland flat (Figures 4.3-201 and 4.3-202). It was encountered while shovel testing in a



Figure 4.3-201: Map of Site 31WA2049. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-202: View of Site 31WA2049, Looking Northwest.

fallow field. The site assemblage (n=23) is comprised of lithic materials located in Zones 1 and 2 of ten positive shovel tests. These artifacts are summarized in Table 4.3-96. Four metavolcanic interior flakes and three quartz interior flakes derived from Zone 2 of the positive tests. The artifacts located in Zone 1 include a metavolcanic bifacial thinning flake, a quartz porphyritic rhyolite bifacial thinning flake, six metavolcanic interior flakes, a plagioclase porphyritic rhyolite interior flake, four quartz interior flakes, a aphyric rhyolite flake fragment, a metavolcanic flake fragment, and a piece of quartz shatter. The typical soil profile of the site contains three zones: Zone 1, a dark yellowish brown (10YR 4/4) sandy loam plow zone approximately 25 cm in thickness; Zone 2, a brownish yellow (10YR 6/8) sandy loam E-horizon approximately 25 cm in thickness; Zone 3, a light yellowish brown (10YR 6/4) sandy clay subsoil. The presence of artifacts in Zone 2 is likely the result of bioturbation. Radial shovel tests were not excavated to the south since this direction extended outside of the project area. **RECOMMENDATIONS:** Given the low artifact density, lack of diagnostic artifacts, and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Central Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

J1 WA2047.	
Object	Count
Metavolcanic Bifacial Thinning Flake	1
Quartz Porphyritic Rhyolite Bifacial Thinning Flake	1
Metavolcanic Interior Flake	10
Plagioclase Porphyritic Rhyolite Interior Flake	1
Quartz Interior Flake	7
Aphyric Rhyolite Flake Fragment	1
Metavolcanic Flake Fragment	1
Quartz Shatter	1
Total	23

Table 4.3-96: Summary of Artifacts Recovered from 31WA 2049

SITE NUMBER: 31WA2050

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Norfolk loamy sand, 2 to 6 percent slopes

SITE SIZE: 17 x 15 m (57 x 50 ft)

SELECTED ARTIFACTS: metavolcanic interior flake

COMMENTS: A single metavolcanic interior flake was recovered when shovel testing on the margin of a grassy pasture situated on a gentle side slope of an upland area in the north of Segment II. The artifact was recovered from the plow zone of a positive shovel test. Radial shovel tests, excavated in four directions at 15-m intervals, did not yield additional cultural material.

RECOMMENDATIONS: This artifact lacks sufficient context for further interpretation and the location is unlikely to provide additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2051

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 17 x 15 m (57 x 50 ft)

SELECTED ARTIFACTS: quartz interior flakes

COMMENTS: A pair of quartz interior flakes was recovered while shovel testing in a secondary mixed forest situated on the same gentle side slope of an upland as 31WA2050. The artifacts were recorded in Zone 2 of a positive shovel test. The presence of these materials in Zone 2 of the test is likely the result of bioturbation. Radial shovel tests, excavated in four directions at 15-m intervals, yielded no additional material.

RECOMMENDATIONS: This pair of artifacts lack sufficient context for further interpretation and are unlikely to provide additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2052

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 17 x 15 m (57 x 50 ft)

SELECTED ARTIFACTS: plagioclase-quartz porphyritic rhyolite interior flake

COMMENTS: A single plagioclase-quartz porphyritic rhyolite interior flake was recovered while shovel testing in secondary mixed forest situated on a bench roughly 90 m southwest of 31WA2051. The flake was recorded in Zone 2 of a positive shovel test. The presence of this artifact in Zone 2 of the test is likely the result of bioturbation. Radial shovel tests, excavated in four directions at 15-m intervals, yielded no additional material.

RECOMMENDATIONS: This artifact lacked sufficient context for further interpretation and the location is unlikely to provide additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2053

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 17 x 15 m (57 x 50 ft)

SELECTED ARTIFACTS: metavolcanic bifacial thinning flake

COMMENTS: A single metavolcanic bifacial thinning flake was recovered while shovel testing in a mixed secondary forest on the same landform as 31WA2052, approximately 75 m to the southwest. The flake was recovered from Zone 2 of a positive shovel test. The presence of this artifact in Zone 2 of the test is likely the result of bioturbation. Radial shovel tests, excavated in four directions at 15-m intervals, yielded no additional material.

RECOMMENDATIONS: This artifact lacks sufficient context for further interpretation and the location is unlikely to provide additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2054**

SITE TYPE: Historic isolated find: nineteenth to twentieth century

SOIL TYPE: Norfolk loamy sand, 2 to 6 percent slopes

SITE SIZE: 17 x 15 m (57 x 50 ft)

SELECTED ARTIFACTS: edged whiteware, undecorated whiteware, gray and buff bodied stoneware (North American)

COMMENTS: This isolated find was recovered while shovel testing in a brush-covered fallow field situated on an upland flat. Four artifacts were recovered from the plow zone of a positive shovel test. These materials include an undecorated whiteware fragment, an edged whiteware fragment, a gray-bodied stoneware (North American) fragment, and a buff-bodied Albany slipped stoneware (North American) fragment. Whiteware production dates range from the 1830s to the present , while the production range for Albany slipped stoneware is generally 1805 to 1920 (Miller et al. 2000). Radial shovel tests, excavated in four directions at 15-m intervals, yielded no additional material.

RECOMMENDATIONS: These artifacts lacked sufficient context for further interpretation and the location is unlikely to yield additional information on the historic lifeways of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2055

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Norfolk loamy sand, 2 to 6 percent slopes

SITE SIZE: 17 x 15 m (57 x 50 ft)

SELECTED ARTIFACTS: metavolcanic interior flake

COMMENTS: A single metavolcanic interior flake was recovered while shovel testing in a planted pine forest situated on an upland flat in the southern extension south in Segment II. The artifact was recovered from Zone 2 of a positive shovel test. The presence of this artifact in Zone 2 of the test is likely the result of bioturbation. Radial shovel tests, excavated in four directions at 15-m intervals, yielded no additional material.

RECOMMENDATIONS: This artifact lacks sufficient context for further interpretation and the location is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2056

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 48 x 21 m (157 x 68 ft)

SELECTED ARTIFACTS: metavolcanic bifacial thinning flake, plagioclase porphyritic rhyolite bifacial thinning flake, aphyric rhyolite interior flake, quartz interior flake *COMMENTS:* This isolated find was encountered while shovel testing in a planted pine forest located approximately 70 m north of 31WA2055, and on the same landform. Four pieces of lithic debitage were recovered from Zone 2 of two positive shovel tests. These items include a plagioclase porphyritic rhyolite bifacial thinning flake, an aphyric rhyolite interior flake, a quartz interior flake, and a metavolcanic bifacial thinning flake. The presence of artifacts in Zone 2 of these positive tests is likely a result of bioturbation. Radial shovel tests, excavated in four directions at 15-m intervals, yielded no additional material.

RECOMMENDATIONS: This set of artifacts lacks sufficient context for further interpretation and are unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2057

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 22 x 22 m (72 x 72 ft)

SELECTED ARTIFACTS: quartz interior flake

COMMENTS: A single quartz interior flake was recovered while shovel testing in a planted pine forest situated on the top of a ridge toe. The artifact derived from Zone 2 of a positive shovel test. The presence of cultural material in Zone 2 of these positive tests is likely a result of bioturbation. Radial shovel tests were excavated to the north, west, and south at 15-m intervals but yielded no additional material. Radials shovel tests were not excavated to the east due to the disturbance of a logging road.

RECOMMENDATIONS: This isolate find lacks sufficient context for further interpretation and the location is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2058

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Norfolk loamy sand, 6 to 10 percent slopes

SITE SIZE: 17 x 15 m (57 x 50 ft)

SELECTED ARTIFACTS: metavolcanic interior flake

COMMENTS: A single metavolcanic interior flake was encountered while shovel testing in a mixed secondary-growth forest situated on a stream terrace near. The artifact was recovered from Zone 3 of a positive shovel test. The presence of this artifact in Zone 3 of the test is likely a result of bioturbation. Radial shovel tests, excavated in four directions at 15-m intervals, yielded no additional material.

RECOMMENDATIONS: This isolated artifact lacks sufficient context for further interpretation is unlikely to provide additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2059

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Appling sandy loam, 6 to 10 percent slopes, moderately eroded

SITE SIZE: 14 x 11 m (46 x 36 ft)

SELECTED ARTIFACTS: quartz interior flakes

COMMENTS: This isolated find was recovered while shovel testing in a secondary mixed forest situated on stream terrace. Three quartz interior flakes were recovered from Zone 2 of a positive shovel test. The presence of these materials in Zone 2 of the positive is likely a result of bioturbation. Radial shovel tests were excavated to the north, east, and south at 15-m intervals but yielded no additional material. Radial shovel test were not excavated to the west due to the presence of a drainage.

RECOMMENDATIONS: This set of artifacts lack sufficient context for further interpretation and are unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2060

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Norfolk loamy sand, 6 to 10 percent slopes

SITE SIZE: 28 x 11 m (91 x 54 ft)

SELECTED ARTIFACTS: metavolcanic interior flakes

COMMENTS: This isolated find was recovered from while shovel testing in a secondary mixed forest situated on the same stream terrace as 31WA2058. Two metavolcanic interior flakes were recovered from Zone 2 of two respective shovel tests. The presence of artifacts in Zone 2 of these positive tests is likely a result of bioturbation. Radial shovel tests, excavated in four directions at 15-m intervals, yielded no additional material.

RECOMMENDATIONS: This pair of isolated artifacts lack sufficient context for further interpretation and are unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

Segment JJ (STIP R-2829)	
Length	941.97 m (3,090.44 ft)
Area	16.73 ha (41.29 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	1.23 ha (3.03 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	.47 ha (1.17 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	13.99 ha (34.58 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	1.04 ha (2.57 acres)
Total # of Shovel Tests	269
Total # Sites Documented	3
Total # Isolated Finds Documented	

Table 4.3-97:Segment JJ Survey Summary.

Segment JJ is a small segment located southeast of the intersection of Rock Quarry Road and Old Baucom Road (see Figure 4.3-1d). It extends for 941.97 m (3,090.44 ft) along Rock Quarry Road and for 594 m (1,950 ft) along Old Baucom Road. Soils in Segment JJ are predominantly Wagram loamy sand. To a smaller extent, the segment is also made up of Norfolk loamy sand,

Faceville sandy loam, and other less prevalent soil types. The most extensive soil unit is Wagram loamy sand, 0 to 6 percent slopes. Wagram soils are classified as somewhat excessively drained, while the other soil series mentioned above are classified as well-drained. At the time of the survey, the ground cover in Segment JJ consisted mostly of woods (farmed timber). Despite its small size, survey of Segment JJ required a significant amount of shovel testing, as barely more than 10 percent of the segment area was coded as eroded, wet, or poorly drained—the lowest of any segment of the project—and the landscape is relatively level. Ground surface visibility was low. Most of this segment was surveyed with shovel tests excavated at 30-m (98-ft) intervals. Eroded areas were subject to visual inspection at 30-m (98ft) intervals. Survey resulted in the identification of three archaeological sites in Segment JJ, including a relatively extensive site in the center of the segment (see Figure 4.3-2d).

STATE SITE NUMBER: 31WA2061&2061**

SITE TYPE: Native American lithic scatter: unattributed; Historic isolated find: nineteenth to mid twentieth centuries

SOIL TYPE: Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 251 x 130 m (824 x 426 ft)

SELECTED ARTIFACTS: aphyric rhyolite bifacial thinning flakes, metavolcanic bifacial thinning flakes, plagioclase porphyritic rhyolite bifacial thinning flake, quartz bifacial thinning flakes, quartz porphyritic rhyolite bifacial thinning flakes, aphyric rhyolite interior flakes, metavolcanic interior flakes, plagioclase porphyritic rhyolite interior flakes, plagioclase-quartz porphyritic rhyolite interior flakes, quartz porphyritic rhyolite interior flakes, quartz

COMMENTS: This site was identified during shovel testing in a wooded area situated on top of a wide ridge (Figures 4.3-203 and 4.3-204). The assemblage for the site (n=151), comprised almost entirely of lithic artifacts, derived from Zones 1 and 2 of positive shovel tests and test units. The typical soil profile revealed through shovel testing at the site contains three zones: Zone 1, a brown (10YR 5/3) sandy loam plow zone approximately 25 cm in thickness; Zone 2, a light yellowish brown (10YR 6/4) sands E-Horizon approximately 20 cm in thickness; Zone 3, a yellowish brown (10YR 5/8) sandy clay subsoil. Bioturbation was present in all soil zones at the site, yet diminishing in severity with depth.

The historic component of the site includes a single undecorated rim fragment of whiteware which was recovered from Zone 1 of a positive shovel test. The Native American component of the site contains 150 lithic artifacts. These items include two aphyric rhyolite bifacial thinning flakes, nine metavolcanic bifacial thinning flakes, a plagioclase porphyritic rhyolite bifacial thinning flakes, two quartz bifacial thinning flakes, four quartz porphyritic rhyolite bifacial thinning flakes, 16 aphyric rhyolite interior flakes, 46 metavolcanic interior flakes, 12 plagioclase porphyritic rhyolite interior flakes, a quartz porphyritic rhyolite interior flakes, 42 quartz interior flakes, a quartz porphyritic rhyolite interior flake, an aphyric rhyolite flake fragment, a quartz fragment, and an indeterminate fragment.

IN DEPTH EVALUATION: Based on the size and the possibility of intact deposits below the plow zone, two 1-x-1-m test units were excavated at the site. Test Unit 1 was placed between Shovel Tests 1, 5, 9, and 32 because this location yielded the densest concentration of lithics at the site. Test Unit 2 was excavated between Shovel Tests 1, 9, 11, and 20 because this area



Figure 4.3-203: Map of Site 31WA2061&2061**, 31WA2062&2062**, and 31WA2063. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-204: View of Site 31WA2061&2061**, Looking North.



Figure 4.3-205: Site 31WA2061&2061**, Test Unit 1, Sketch of North Profile.



Figure 4.3-206: 31WA2061&2061**, Test Unit 1, Photograph of North Profile.

contained the highest density of lithics located beneath the plow zone. No diagnostic artifacts were found at this site.

Object	Zone/Level	Count	Percentage in Test Unit
Metavolcanic Bifacial Thinning Flake	1/1	1	2.17%
Quartz Interior Flake	1/1	2	4.35%
Metavolcanic Bifacial Thinning Flake	1/2	1	2.17%
Plagioclase Porphyritic Rhyolite Bifacial Thinning Flake	1/2	1	2.17%
Plagioclase-Quartz Porphyritic Rhyolite Interior Flake	1/2	4	8.70%
Quartz Porphyritic Rhyolite Bifacial Thinning Flake	1/2	1	2.17%
Aphyric Rhyolite Interior Flake	1/2	2	4.35%
Metavolcanic Interior Flake	1/2	5	10.87%
Plagioclase Porphyritic Rhyolite Interior Flake	1/2	3	6.52%
Quartz Interior Flake	1/2	3	6.52%
Metavolcanic Bifacial Thinning Flake	1/3	2	4.35%
Quartz Porphyritic Rhyolite Bifacial Thinning Flake	1/3	1	2.17%
Aphyric Rhyolite Interior Flake	1/3	1	2.17%
Metavolcanic Interior Flake	1/3	5	10.87%
Plagioclase Porphyritic Rhyolite Interior Flake	1/3	2	4.35%
Plagioclase-Quartz Porphyritic Rhyolite Interior Flake	1/3	4	8.70%
Quartz Interior Flake	1/3	1	2.17%
Metavolcanic Bifacial Thinning Flake	2/1	1	2.17%
Aphyric Rhyolite Interior Flake	2/1	1	2.17%
Metavolcanic Interior Flake	2/1	2	4.35%
Plagioclase-Quartz Porphyritic Rhyolite Interior Flake	2/1	3	6.52%
Total		46	100.00%

Table 4.3-98: Summary of Artifacts Recovered from Test Unit 1 at 31WA2061&2061**, by Zone and Level.

Table 4.3-99: Summary of Artifacts Recovered from Test Unit 2 at 31WA2061&20)61**, by	
Zone and Level.		

Object	Zone/Level	Count	Percentage in
			Test Unit
Aphyric Rhyolite Bifacial Thinning Flake	1/1	1	3.33%
Metavolcanic Interior Flake	1/1	2	6.67%
Plagioclase Porphyritic Rhyolite Interior Flake	1/1	1	3.33%
Quartz Interior Flake	1/1	4	13.33%
Aphyric Rhyolite Bifacial Thinning Flake	2/1	1	3.33%
Metavolcanic Interior Flake	2/1	7	23.33%
Quartz Interior Flake	2/1	2	6.67%
Metavolcanic Interior Flake	2/2	3	10.00%
Plagioclase Porphyritic Rhyolite Interior Flake	2/2	2	6.67%
Quartz Interior Flake	2/2	1	3.33%
Aphyric Rhyolite Interior Flake	2/3	3	10.00%
Metavolcanic Interior Flake	2/3	2	6.67%

Quartz Interior Flake	2/3	1	3.33%
Total		30	100.00%

Test Unit 1 recovered 46 lithic artifacts (Tables 4.3-98). Excavation of the unit revealed a threezone soil profile: Zone 1, a pale brown (10YR 6/3) sandy loam plow zone 20 cm in thickness; Zone 2, a yellowish brown (10YR 6/4) sandy E-horizon 14 cm in thickness; and Zone 3, a brownish yellow (10YR 6/8) sandy clay subsoil. Test Unit 1 had no features, and the only signs of disturbance appeared to be from bioturbation and plowing (Figures 4.3-205 and 4.3-206). Most of the cultural material recovered from the unit derived from the plow zone, with artifact density diminishing as the depth increased.

Test Unit 2 recovered 30 lithic artifacts (Tables 4.3-99). Excavation of the unit revealed a twozone soil profile: Zone 1, a dark grayish brown (10YR 4/2) sandy loam A-horizon 8 cm in thickness; and Zone 2, a light yellowish brown (2.5Y 6/4) sandy E-horizon. Test Unit 2 had no features, and the only sign of disturbance appeared to be from bioturbation (Figures 4.3-207 and 4.3-208). The E-horizon of the unit contained twice as many artifacts as the A-horizon. Table 4.3-100 contains a summary of artifacts recovered from the site.

Object	Count
Aphyric Rhyolite Bifacial Thinning Flake	2
Metavolcanic Bifacial Thinning Flake	9
Plagioclase Porphyritic Rhyolite Bifacial Thinning Flake	1
Quartz Bifacial Thinning Flake	2
Quartz Porphyritic Rhyolite Bifacial Thinning Flake	4
Aphyric Rhyolite Interior Flake	16
Metavolcanic Interior Flake	46
Plagioclase Porphyritic Rhyolite Interior Flake	12
Plagioclase-Quartz Porphyritic Rhyolite Interior Flake	12
Quartz Interior Flake	42
Quartz Porphyritic Rhyolite Interior Flake	1
Aphyric Rhyolite Flake Fragment	1
Quartz Fragment	1
Indeterminate Fragment	1
Whiteware	1
Total	151

Table 4.3-100: Summary of Artifacts Recovered from 31WA2061&2061**

Test Unit 1 and Test Unit 2 differ in that the latter appears to be located in a portion of the site containing natural intact stratigraphy. The majority of the artifacts recovered from Test Unit 2 derived from Zone 2. The patterns found in Test Unit 1 are reflected in the shovel tests with an equal amount of artifacts coming from Zone 1 and Zone 2. The size of this site is probably the result of intensive plowing across much of it. The southeast corner of the site contains a small area of unplowed soils but the location did not yield diagnostic artifacts, and the density of artifacts found in this area was not significant.



Figure 4.3-207: Site 31WA2061&2061**, Test Unit 2, Sketch of East Profile.



Figure 4.3-208: 31WA2061&2061**, Test Unit 2, Photograph of East Profile.

RECOMMENDATIONS: Although this is one of the larger sites recorded during the project, it yielded only moderate densities of artifacts and lacks diagnostic material to provide context for the lithic debitage. The site has been heavily impacted by plowing and likely deflation, and the presence of artifacts beneath the plow zone can probably be attributed to bioturbation, except within the southeast corner of the site. Thus, this site has little potential to provide additional information on precontact or historic inhabitants of the Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2062&2062**

SITE TYPE: Historic structure ruin: late nineteenth and twentieth century; Native American lithic scatter: unattributed

SOIL TYPE: Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 62 x 22 m (205 x 75 ft)

SELECTED ARTIFACTS: quartz biface fragment, aphyric rhyolite interior flake, metavolcanic interior flakes, quartz interior flakes, Albany Bristol stoneware (North American), indeterminate iron fragment

COMMENTS: This historic ruin is situated within a mixed secondary forest located 70 m east of 31WA2061&2061** on a lower portion of the same upland flat (Figure 4.3-209 and 4.3-210). The site structure was found along an old road bed about 45 m south of Old Baucom Road. The site contains a stone and mortar foundation ruin about 80 cm in height and covering approximately a 6-x-6-m area. Only the north wall of the structure is articulated. A gap on the eastern wall appears to indicate the former entrance of the structure. A large brick feature stretches across the structure along the north-south axis, beginning just outside the southern wall and ending within 1.2 m from the interior of the northern wall. The length of the feature contains two brick courses with a 40 to 50 cm gap between them. This gap is filled with brick jumble which now appears to spill out from the end of the feature (see Figure 4.3-210). The gap between the two brick courses had some evidence of burning, suggesting that this may have been some kind of flue. The dimensions of this structure and the central location of the long brick flue suggest that this foundation is from a tobacco barn with a wood burning furnace. The only cultural materials located on the surface were wood planks and corrugated metal roofing that were found just along the edge of the structure. Five judgmental shovel tests were excavated, one on the interior of the structure and four immediately adjacent to each side. Two of these initial tests were positive for cultural materials. Subsequently, three additional radial shovel tests were also found to be positive, thus helping to define the site boundary. The artifact assemblage (n=9) is summarized in Table 4.3-101. It contains only one diagnostic artifact: a fragment of Albany Bristol stoneware (North American) that dates from 1890s to the twentieth century (Stelle 2001). Shovel testing revealed a three-zone soil profile at the site: Zone 1, a brown (10YR 4/3) silty loam A-horizon approximately 15 cm in thickness; Zone 2, a yellowish brown (10YR 5/6) sandy loam E-horizon, approximately 28 cm in thickness; Zone 3, a yellowish brown (10YR 5/8) sandy clay subsoil.

Table 4.3-101: Summary of Artifacts Recovered from 31WA2062&2062**.

Object	Count
Quartz Biface Fragment	1
Aphyric Rhyolite Interior Flake	1



Figure 4.3-209: View of Site 31WA2062&2062**, Looking South.



Figure 4.3-210: View of 31WA2062&2062**, Looking North.

Metavolcanic Interior Flake	2
Quartz Interior Flake	3
Albany Bristol Stoneware (North American)	1
Iron Indeterminate Fragment	1
Total	9

The Native American component of the site includes a quartz biface fragment, an aphyric rhyolite interior flake, two metavolcanic interior flakes, and three quartz interior flakes.

Although the structure retains a portion of the original foundation and much of a brick furnace, remnants of the upper portion of the structure were not located during the project survey. The structure looks to have been abandoned for many years.

RECOMMENDATIONS: Given the low density of artifacts, lack of evidence suggesting intact subsurface deposits, and lack of structural preservation this site lacks potential to provide additional information on the historic agricultural practices of the Central Piedmont region of North Carolina. Based on the structure's general state of disrepair and the lack of significant artifact deposits associated with their occupation. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2063

SITE TYPE: Native American lithic scatter: Woodland

SOIL TYPE: Wagram loamy sand, 6 to 10 percent slopes

SITE SIZE: 39 x 28 m (128 x 92 ft)

SELECTED ARTIFACTS: indeterminate Native American ceramics, plagioclase porphyritic rhyolite bifacial thinning flake, plagioclase-quartz porphyritic rhyolite bifacial thinning flake, metavolcanic interior flakes, plagioclase-quartz porphyritic rhyolite interior flake, quartz interior flakes

COMMENTS: The site was encountered on a gentle side slope east of 31WA2061&2061** and south 31WA2062&2062** (See Figures 4.3-203 and 4.3-211). It was recorded in a secondary mixed forest with no surface visibility. The artifacts recovered (n=15) derived from Zone 2 (near the interface with Zone 1) of three positive shovel tests excavated at the site. Most of the artifacts recovered are lithic items, but the assemblage also includes two indeterminate Native American ceramic sherds (Table 4.3-102). The presence of these materials in Zone 2 may reflect bioturbation and past erosion leading to deflation. Shovel testing revealed a three-zone soil profile for the site: Zone 1, a brown (10YR 4/3) sandy loam A-horizon approximately 20 cm in thickness; Zone 2, a light yellowish brown (10YR 6/4) sand E-horizon approximately 30 cm in thickness; Zone 3, a brownish yellow (10YR 6/6) sandy clay subsoil.

Object	Count
Indeterminate Native American Ceramic	2
Plagioclase Porphyritic Rhyolite Bifacial Thinning Flake	1
Plagioclase-Quartz Porphyritic Rhyolite Bifacial Thinning Flake	2
Metavolcanic Interior Flake	6
Plagioclase-Quartz Porphyritic Rhyolite Interior Flake	1
Quartz Interior Flake	3
Total	15

Table 4.3-102: Summary of Artifacts Recovered from 31WA2063.



Figure 4.3-211: View of Site 31WA2063, Looking Northwest.

RECOMMENDATIONS: Given the low artifact density and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Central Piedmont region of North Carolina and does not appear eligible for the NRHP under Criteria A, B, C, or D.

Segment KK (STIP R-2829)	
Length	2,144.93 m (7,037.18 ft)
Area	80.52 ha (198.75 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	31.89 ha (78.81 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	.49 ha (1.22 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	5.49 ha (13.57 acres)
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	24.57 ha (60.71 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	7.65 ha (18.91 acres)
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	.31 ha (.77 acres)
Total Area Disturbed / Sloped / Low and Wet	10.02 ha (24.76 acres)
Total # of Shovel Tests	407
Total # Sites Documented	5
Total # Isolated Finds Documented	3

Table 4.3-103: Segment KK Survey Summary.

Segment KK is a much longer segment compared to JJ, spanning a distance of 2,144.93 m (7,037.18 ft) from Rock Quarry Road and Old Baucom Road to Battle Bridge Road (see Figure 4.3-1d). The segment extends for 929 m (3,046 ft) along Rock Quarry Road west of Old Baucom Road, for 594 m (1,950 ft) along Old Baucom Road east of Rock Quarry Road, and east and west along Battle Bridge Road for a total distance of 736 m (2,413 ft). Soils in Segment KK consist primarily of Wedowee sandy loam, Wagram loamy sand, and Appling soils. The most extensive soil unit in the segment is Wedowee sandy loam, 6 to 10 percent slopes, moderately eroded. Wedowee and Appling soils are classified as well-drained, and Wagram soils are classified as somewhat excessively drained. The terrain in Segment KK is undulating and portions of the segment were coded as moderately eroded or poorly drained. At the time of the survey, ground cover in Segment KK consisted of woods, agricultural fields, open areas, and residential lots. A large artificial pond overlaps Segment KK near Rock Quarry Road and a smaller pond lies within the segment to the north. Together, the ponds encompass a total of about 1.36 ha (3.36 acres) of the segment. Survey in Segment KK consisted of shovel testing at 30-m (98-ft) intervals, surface survey at 10-m (33-ft) intervals in agricultural fields, and visual inspection at 30-m (98-ft) intervals. Survey resulted in the identification of eight archaeological resources including isolated finds in Segment KK (see Figure 4.3-2d). Most of these sites are located near the southwestern end of the segment. One non-eroded area (.77 acres) was not

surveyed because the landowner of a horse pasture denied access to their property (see Figure 4.3-1d).

SITE NUMBER: 31WA2064

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Appling sandy loam, 2 to 6 percent slopes

SITE SIZE: 24 x 22 m (79 x 72 ft)

SELECTED ARTIFACTS: plagioclase porphyritic rhyolite point midsection

COMMENTS: An isolated plagioclase porphyritic rhyolite point midsection was recovered while shovel testing in a secondary mixed forest situated on a gentle side slope of an upland on the northern edge of Segment KK. The indeterminate point fragment derived from Zone 1 of a positive shovel test. Radial shovel tests excavated in four directions at 15-m intervals did not yield additional material.

RECOMMENDATIONS: The artifact lacks sufficient context for further interpretation and the location is unlikely to provide additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2065

SITE TYPE: Native American scatter: Middle Woodland

SOIL TYPE: Appling sandy loam, 10 to 15 percent slopes

SITE SIZE: 64 x 23 m (210 x 75 ft)

SELECTED ARTIFACTS: Native American Yadkin series ceramics, indeterminate Native American ceramic, aphyric rhyolite interior flakes, quartz interior flake

COMMENTS: The site was encountered during shovel testing in a mixed secondary forest situated on a stream terrace just south of the confluence of two unnamed intermittent tributaries located at the center of Segment KK (Figures 4.3-212 and 4.3-213). The site assemblage (n=8) primarily derived from Zone 2 of four positive shovel tests excavated at the site, with the exception of an aphyric rhyolite interior flake which was located in Zone 1 of Shovel Test 1. The artifacts recovered from Zone 2 of positive shovel tests include three Yadkin series ceramic sherds that all derived from Shovel Test 14 (Figure 4.3-214). Two of these three Yadkin sherds refit; however, they appear to have broken recently. Also encountered in Zone 2 of positive shovel tests, are a small indeterminate Native American ceramic sherd, two aphyric rhyolite interior flakes, and a quartz interior flake. The Yadkin series dates to the Middle Woodland period between approximately 500 B.C. and 800 A.D (Coe 1964:27-32; Ward and Davis 1999:80-84). The typical soil profile of the site contained three soil zones. Zone 1, a dark yellowish brown (10YR 4/4) sandy loam A-horizon approximately 20 cm in thickness; Zone 2, a light yellowish brown (10YR 6/4) sandy E-horizon approximately 10 cm in thickness; and Zone 3, a yellowish brown (10YR 5/8) sandy clay subsoil. The presence of material in Zone 2 is likely the result of bioturbation and past erosion leading to deflation.

RECOMMENDATIONS: Given the low artifact density and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Central Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.



Figure 4.3-212: Map of Site 31WA2065. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-213: View of Site 31WA2065, Looking North.



Figure 4.3-214: Yadkin Series Ceramic from 31WA2065, Fabric Impressed Body Sherd (Acc.# 2017.0191.03).

SITE NUMBER: 31WA2066&2066**

SITE TYPE: Native American lithic scatter: unattributed; Historic scatter: nineteenth century to twentieth century

SOIL TYPE: Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 177 x 42 m (581 x 138 ft)

SELECTED ARTIFACTS: metavolcanic bifaces, metavolcanic biface fragment, quartz biface fragment, metavolcanic retouched flake, quartz retouched flakes, quartz decortication flake, aphyric rhyolite bifacial thinning flake, metavolcanic bifacial thinning flakes, quartz bifacial thinning flakes, aphyric rhyolite interior flake, metavolcanic interior flakes, plagioclase porphyritic rhyolite interior flakes, quartz interior flakes, quartz shatter, white porcelain, Blue Willow whiteware, Homer Laughlin whiteware, decal decorated/ "decalcomania" whiteware, edged whiteware, transfer-printed whiteware, undecorated whiteware, Albany Bristol stoneware (North American), gray-bodied stoneware (North American)

COMMENTS: This multicomponent site was encountered during the visual assessment of a plowed agricultural field with favorable surface visibility situated on an upland area (Figures 4.3-215 and 4.3-216). The assemblage from the site (n=123) derives primarily from the ground surface of the site, and also from the plow zone of positive judgmental shovel tests (Table 4.3-102). Judgmental shovel testing revealed a two-zone soil profile at the site with Zone 1 a brown (10YR 5/3) silty loam plow zone approximately 30 cm in thickness, and Zone 2 a brownish yellow (10YR 6/8) sandy E-horizon.

The Native American component of the site yielded 111 lithic artifacts. These items include two metavolcanic bifaces, a metavolcanic biface fragment, a quartz biface fragment, quartz decortication flake, a metavolcanic retouched flake, two quartz retouched flakes, an aphyric rhyolite bifacial thinning flake, eight metavolcanic bifacial thinning flakes, three quartz bifacial thinning flakes, an aphyric rhyolite interior flake, 15 metavolcanic interior flakes, two plagioclase porphyritic rhyolite interior flakes, 65 quartz interior flakes, an aphyric rhyolite flake fragment, a plagioclase porphyritic rhyolite fragment, and a quartz fragment.

The historic component of the site is much smaller than the Native American component and contains only 12 artifacts (Figure 4.3-217). These items include eight whiteware fragments (including Homer Laughlin transfer printed, Blue Willow transfer printed, decal decorated/"decalcomania", blue-edged, and indeterminate), a porcelain fragment, and three North American stoneware fragments (two Albany Bristol and a gray-bodied piece). Whiteware production dates range from the 1830s to the present (Miller et al. 2000). Homer Laughlin whiteware production dates range from 1877 to the present (Fiesta Direct Site 2017), while Decalcomania decoration on whiteware post-dates 1890 (Miller et al. 2000). Albany Bristol stoneware (North American) production dates range from 1877ates and the store of the twentieth century (Stelle 2001). All of the artifacts recovered are summarized in Table 4.3-104.

RECOMMENDATIONS: Given the absence of clear evidence for intact subsurface deposits (nothing came from beneath the plow zone), this site lacks the potential to provide additional information on Native American or historic settlement patterns of the Central Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, and D.



Figure 4.3-215: Map of Site 31WA2066&2066** and 31WA2069. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-216: View of Site 31WA2066&2066**, Looking East.



Figure 4.3-217: Historic Ceramics from 31WA2066&2066**: a) Edged Whiteware (Acc.# 2017.0192.01); b) Transfer-Printed Whiteware (Acc.# 2017.0192.01); c-d) Blue Willow Whiteware (Acc.# 2017.0192.01); e) Transfer-Printed Whiteware (Acc.# 2017.0192.01); f) Decal Decorated Whiteware (Acc.# 2017.0192.01); g) Homer Laughlin Whiteware (Acc.# 2017.0192.01).

Object	Count
Metavolcanic Biface	2
Metavolcanic Biface Fragment	1
Quartz Biface Fragment	1
Metavolcanic Retouched Flake	1
Quartz Retouched Flake	2
Quartz Decortication Flake	1
Aphyric Rhyolite Bifacial Thinning Flake	1
Metavolcanic Bifacial Thinning Flake	8
Quartz Bifacial Thinning Flake	3
Aphyric Rhyolite Interior Flake	1
Metavolcanic Interior Flake	15
Plagioclase Porphyritic Rhyolite Interior Flake	2
Quartz Interior Flake	65
Aphyric Rhyolite Flake Fragment	1
Plagioclase Porphyritic Rhyolite Fragment	1
Quartz Fragment	1
Quartz Shatter	5
Porcelain	1
Whiteware	8
Stoneware (North American)	3
Total	123

Table 4.3-104: Summary of Artifacts Recovered from 31WA2066&2066**.

SITE NUMBER: 31WA2067&2067**

SITE TYPE: Native American isolated find: unattributed; Historic isolated find: unattributed *SOIL TYPE:* Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 40 x 15 m (130 x 50 ft)

SELECTED ARTIFACTS: quartz late stage biface, quartz fragment, mineral door knob fragment

COMMENTS: This isolated find was recovered from the ground surface during the visual assessment of a plowed field with excellent surface visibility that is situate on the same upland flat as 31WA2066&2066**. The materials collected from the surface include a quartz late stage biface, an indeterminate quartz fragment, and a mineral door knob fragment (Albany slipped exterior). The door knob could date from the nineteenth century to the early twentieth century (Brass Knob Blog 2017), which is consistent with the date range in general for Albany slip. The area was pedestrian surveyed with 10-m intervals and two judgmental shovel tests were excavated. No additional artifacts were recovered.

RECOMMENDATIONS: These artifacts lacked sufficient context for further interpretation and are unlikely to yield additional information on Native American and historic settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2068

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Wagram loamy sand, 6 to 10 percent slopes

SITE SIZE: 40 x 15 m (130 x 50 ft)

SELECTED ARTIFACTS: quartz bifacial thinning flake, metavolcanic interior flakes, plagioclase porphyritic rhyolite interior flake, quartz interior flake

COMMENTS: This lithic scatter was recorded during pedestrian survey of a plowed agricultural field with excellent surface visibility situated on the same upland flat as 31WA2066&2066**, approximately 140 m to the north (Figures 4.3-218 and 4.3-219). The site assemblage (n=5) was recovered primarily from the ground surface, with the exception of a metavolcanic interior flake that was recovered from the plow zone of a positive judgmental shovel test. The surface collected artifacts include a quartz bifacial thinning flake, a metavolcanic interior flake, a plagioclase porphyritic rhyolite interior flake, and a quartz interior flake. Shovel testing at the site revealed a three-zone soil profile: Zone 1, a yellowish brown (10YR 5/4) sandy loam plow zone approximately 15 cm in thickness; Zone 2, a brownish yellow (10YR 6/6) sandy E-horizon approximately 5 cm in thickness; and Zone 3, a yellowish brown (10YR 5/8) sandy clay subsoil.

RECOMMENDATIONS: Given the low artifact density and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Central Piedmont region of North Carolina. This site is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2069

SITE TYPE: Native American lithic scatter: Late Archaic

SOIL TYPE: Faceville sandy loam, 2 to 6 percent slopes, moderately eroded

SITE SIZE: 36 x 23 m (118 x 76 ft)

SELECTED ARTIFACTS: quartz Savannah River Stemmed point, metavolcanic biface, metavolcanic biface tip, quartz end scraper, aphyric rhyolite bifacial thinning flake, quartz bifacial thinning flake, aphyric rhyolite interior, metavolcanic interior flake, quartz interior flakes **COMMENTS:** The site was recorded by visual assessment of a plowed agricultural field with excellent visibility situated on the same upland area as 31WA2068, approximately 70 m to the northwest (See Figure 4.3-215) (Figure 4.3-220). The site assemblage (n=14) derived entirely from the ground surface (Table 4.3-105). Three judgmental shovel tests were excavated along the long axis of the surface scatter but these tests did not yield artifacts. The typical soil profile at the site contains two zones: Zone 1, a brown (10YR 5/3) silty loam plow zone approximately 15 cm in thickness and Zone 2, a brownish yellow (10YR 6/8) sandy clay subsoil. The artifacts recovered (Figure 4.3-221) from the site include a fragmented quartz Savannah River Stemmed point base, a metavolcanic biface, a fragmented metavolcanic biface (just the tip), a quartz end scraper, an aphyric rhyolite bifacial thinning flake, a quartz bifacial thinning flake, an aphyric rhyolite interior flake, a metavolcanic interior flake, and six quartz interior flakes. Savannah River Stemmed points generally date to the Late Archaic period (Coe 1964:44-45). Table 4.3-105 contains a summary of artifacts recovered.



Figure 4.3-218: Map of Site 31WA2068. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-219: View of Site 31WA2068, Looking East.



Figure 4.3-220: View of Site 31WA2069, Looking West.



Figure 4.3-221: Native American Artifacts from 31WA2069: a) End Scraper (Acc.# 2017.0195.01); b) Savannah River Stemmed Point Base (Acc.# 2017.0195.01).

Object	Count
Quartz Savannah River Stemmed Point	1
Metavolcanic Biface	1
Metavolcanic Biface Tip	1
Quartz End Scraper	1
Aphyric Rhyolite Bifacial Thinning Flake	1
Quartz Bifacial Thinning Flake	1
Aphyric Rhyolite Interior Flake	1
Metavolcanic Interior Flake	1
Quartz Interior Flake	6
Total	14

Table 4.3-105: Summary of Artifacts Recovered from 31WA2069.

RECOMMENDATIONS: Given the low artifact density and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Central Piedmont region of North Carolina. This site is recommended not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2070

SITE TYPE: Native American Isolated Find: Middle Woodland

SOIL TYPE: Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 37 x 27 m (121 x 89 ft)

SELECTED ARTIFACTS: Native American Yadkin series ceramics, quartz interior flake *COMMENTS:* This isolated find was recovered during shovel testing in a wooded area situated on a gentle side slope of a ridge toe to the north of a human-made pond located on the western of edge of Segment KK. Three artifacts were recovered, with all deriving from Zone 2 of three respective shovel tests. These items include an indeterminate impressed Native American ceramic body sherd tempered with granule-sized quartz, a very coarse sand-tempered Native American ceramic body sherd, and a quartz interior flake (Figure 4.3-222). Radial shovel tests were excavated at 15-m intervals, but no additional materials were encountered. The ceramics recovered are generally consistent with the Yadkin series, which dates to the Middle Woodland period between approximately 500 B.C. and A.D. 800) (Coe 1964:30-32; Ward and Davis 1999:86)

RECOMMENDATIONS: These artifacts lacked sufficient context for further interpretation and the location is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2071

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 58 x 31 m (190 x 103 ft)

SELECTED ARTIFACTS: metavolcanic indeterminate point tip, metavolcanic bifacial thinning flakes, metavolcanic interior flakes, quartzite interior flake, plagioclase porphyritic rhyolite fragment

COMMENTS: The site was recovered during shovel testing in a mixed secondary forest



Figure 4.3-222: Yadkin Series Body Sherd from 31WA2070 (Acc.# 2017.0196.01).


Figure 4.3-223: Map of Site 31WA2071. Base Mapping from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-224: View of Site 31WA2071, Looking South.

situated on the same upland flat as 31WA2069, approximately 140 m to the northwest (Figures 4.3-223 and 4.3-224). The site assemblage (n=7) was recovered from Zone 2 of four positive shovel tests. These artifacts include a metavolcanic indeterminate point tip, two metavolcanic bifacial thinning flakes, two metavolcanic interior flakes, a quartz interior flake, and a plagioclase porphyritic rhyolite fragment. The location of these cultural materials in Zone 2 at the site is likely a result of bioturbation.

Shovel testing revealed a three-zone soil profile at the site: Zone 1, a dark yellowish brown (10YR 4/4) sandy loam A-horizon approximately 20 cm in thickness; Zone 2, an olive yellow (2.5Y 6/6) sandy E-horizon approximately 60 cm in thickness; Zone 3, a yellowish brown (10YR 5/8) sandy clay subsoil.

RECOMMENDATIONS: Given the low artifact density, lack of diagnostic artifacts, and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Central Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

Segment LL (STIP R-2829)	
Length	1,372.64 m (4,503.40 ft)
Area	43.53 ha (107.56 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	11.28 ha (27.87 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	1.85 ha (4.56 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	2.06 ha (5.08 acres)
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	22.91 ha (56.62 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	1.87 ha (4.63 acres)
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	3.56 ha (8.80 acres)
Total # of Shovel Tests	404
Total # Sites Documented	4
Total # Isolated Finds Documented	5

Table 4.3-106: Segment LL Survey Summary.

Segment LL, which is approximately 1,372.64 m (4,503.40 ft) long, begins at Battle Bridge Road and extends northeastward to the Neuse River (see Figures 4.3-1d and e). The segment extends east and west along Battle Bridge Road for a total of approximately 736 m (2,413 ft). Previously recorded site 31WA663 intersects Segment LL. This site represents the ruins of a historic mill, including the mill site itself, the locations of two other potential structures, a well, a road trace, the millpond dam, and an unusually long headrace. All of these features are located within the boundaries of Segment LL. Soils in the segment primarily consist of Appling sandy loam and

Chewacla sandy loam. The most extensive soil unit in the segment is Appling sandy loam, 6 to 10 percent slopes. Appling soils are classified as well-drained and Chewacla soils are classified as somewhat poorly drained. At the time of the survey, the ground cover in Segment LL primarily consisted of woods and open, grassy fields. The fields, and portions of the woods, are owned by Wake County and were once the North Carolina State University Randleigh Field Lab. Dirt roads, a paved trail (Neuse River Trail), a sewer corridor, and a utility corridor cross through the segment. Some disturbance from grading within the segment was noted at the northern edge of the field. A large portion of the field was coded as moderately eroded, and eroded, poorly drained, and excessively sloped areas exist elsewhere in the segment. Ground surface visibility was very low across Segment LL. Survey within the segment consisted of shovel testing at 30-m (98-ft) intervals in areas that were not coded as eroded or poorly drained and did not have an excessive degree of slope, and visual inspection at 30-m (98-ft) intervals elsewhere. Shovel testing was conducted at 15 m (49 ft) intervals in the vicinity of the mill ruins and associated features in order to better define the subsurface component of site 31WA663. Survey resulted in the identification of eight archaeological resources in Segment LL and additional cultural material within site 31WA663 (see Figure 4.3-2d and e). The eight newly-identified resources consist of small flake scatters, an isolated point, and a historic ruin that may be related to the mill site. Precontact material was found in shovel tests within the boundary of site 31WA663, but very little post-contact material was identified, despite the presence of the historic features and the closer interval employed during shovel testing.

SITE NUMBER: 31WA2072

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Appling sandy loam, 10 to 15 percent slopes

SITE SIZE: 18 x 18 m (59 x 59 ft)

SELECTED ARTIFACTS: metavolcanic bifacial thinning flake, metavolcanic interior flakes **COMMENTS:** This isolated find was recovered while shovel testing in a wooded area situated on a stream terrace located approximately 30 m north of Battle Bridge Road. Three artifacts were recovered from Zone 2 of a positive shovel test. The presence of these cultural materials in Zone 2 is likely a result of bioturbation. These items include a metavolcanic bifacial thinning flake and two metavolcanic interior flakes. Radial shovel tests were excavated in four directions at 15-m intervals but no additional material was recorded.

RECOMMENDATIONS: The set of artifacts lacks sufficient context for further interpretation and are unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2073

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Appling sandy loam, 2 to 6 percent slopes

SITE SIZE: 18 x 18 m (59 x 59 ft)

SELECTED ARTIFACTS: metavolcanic interior flake

COMMENTS: A single metavolcanic interior flake was recovered during shovel testing in a grassy pasture on an upland flat at the center of Segment LL. This artifact was recovered from Zone 2 of a positive shovel test. The presence of this flake in Zone 2 is likely a result of bioturbation. Radial shovel tests were excavated in four directions at 15-m intervals, but no additional material was encountered.

RECOMMENDATIONS: This artifact lacked sufficient context for further interpretation and is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2074&2074**

SITE TYPE: Native American lithic scatter: unattributed; Historic isolated find: unattributed *SOIL TYPE:* Appling sandy loam, 2 to 6 percent slopes

SITE SIZE: 81 x 47 m (266 x 155 ft)

SELECTED ARTIFACTS: metavolcanic retouched flake, quartz interior flakes, quartz shatter, colorless container glass

COMMENTS: This multicomponent site was encountered during shovel testing in a grassy pasture situated on a gentle side slope of an upland flat about 90 m east of 31WA2073 in Segment LL (Figures 4.3-225 and 4.3-226). This site represents a small Native American lithic scatter and a historic isolated find. Radial shovel tests were excavated to the north, east, and south but could not be followed to the west because of a field that had been heavily disturbed by agricultural activities. The single historic artifact is a colorless container glass fragment (Table 4.3-107).

The Native American assemblage from the site includes a metavolcanic retouched flake, 11 quartz interior flakes, and a piece of quartz shatter. These materials derived from the plow zone of positive shovel tests at the site, with the exception of a single quartz flake that derived from Zone 2.

Table 4.5-107. Summary of Arthacts Recovered from 51 w A2074&2074	
Object	Count
Metavolcanic Retouched Flake	1
Quartz Interior Flake	11
Quartz Shatter	1
Colorless Container Glass	1
Total	14

Table 4.3-107: Summary of Artifacts Recovered from 31WA2074&2074**

A three-zone soil profile was revealed through shovel testing at the site: Zone 1, a dark yellowish brown (10YR 4/4) silty loam plow zone approximately 20 cm in thickness; Zone 2, a brownish yellow (10YR 6/6) sandy transition approximately 10 cm in thickness; Zone 3, a strong brown (7.5YR 5/8) clay subsoil.

RECOMMENDATIONS: Given the low artifact density, lack of diagnostic artifacts, and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Central Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2075 *SITE TYPE:* Native American isolated find: Early to Middle Woodland *SOIL TYPE:* Wedowee sandy loam, 15 to 25 percent slopes *SITE SIZE:* 18 x 18 m (59 x 59 ft) *SELECTED ARTIFACTS:* chert large triangular point



Figure 4.3-225: Map of Site 31WA2074. Base Mapping from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-226: View of Site 31WA2074&2074**, Looking North.



Figure 4.3-227: Chert Large Triangular Point from 31WA2075 (Acc.# 2017.0201.01).

COMMENTS: A single chert large triangular point (Figure 4.3-227) with a broken tip was recovered while shovel testing on a ridge toe just above the flood plain of the Neuse River, which is positioned approximately 180 m from the location of the find. This artifact was recovered from Zone 1 of a positive shovel test. Radial shovel tests were excavated in four directions at 15-m intervals yet yielded no additional material. Large triangular points generally correlate with Coe's Yadkin Large Triangular type dating to the Middle Woodland and possibly the Early Woodland period (Coe 1964:45-49, Ward and Davis 1999:83-86).

RECOMMENDATIONS: This artifact lacks sufficient context for further interpretation and the location is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA663&663**

SITE TYPE: Native American lithic scatter: unattributed; Historic Griffis Mill ruin: nineteenth to twentieth century

SOIL TYPE: Louisburg loamy sand, 10 to 15 percent slopes

SITE SIZE: 309 x 116 m (1014 x 381 ft)

SELECTED ARTIFACTS: metavolcanic bifacial thinning flake, aphyric rhyolite interior flakes, metavolcanic interior flakes, plagioclase porphyritic rhyolite interior flake, plagioclase-quartz porphyritic rhyolite interior flakes, quartz interior flakes, whiteware, aqua container glass, light aqua container glass, colorless container glass, solarized/manganese dioxide decolorized container glass, white glass bead, complete horseshoe, square cut nail, brick, bone fragments, charcoal

COMMENTS: This previously recorded multicomponent site represents a Native American lithic scatter and a historic grist mill site with significant above-ground features still intact. Documented in detail by URS Corporation as part of an evaluation report for a noncompliance survey for the City of Raleigh (Jorgenson et al. 2008), the mill is known as the Griffis Mill. Based on analysis in the URS report, the mill appears to date to prior to 1870. It is situated on both a stream terrace along Middleton Branch, which feeds into the Neuse River to the north, and the adjacent upland flat between the mill site and Battle Bridge Road (located about 200 m to the south) (see Figure 4.3-2d; Figure 4.3-228). The site is located in relatively open woods of mature trees in an area with no ground surface visibility. A related site, 31WA2076**, is located nearby. This is a possible chimney/stone fall located about 100 m southwest of the southern edge of the site (see Figure 4.3-228), and as such was considered a separate site based on the criteria set forth in the scope of work.

Figure 4.3-229 shows an overlay of the APE on the 1871 *Map of Wake County* and establishes that the mill (see Griffice's Mill) was present by that time. The map also shows the original alignment of Battle Bridge Road, which can still be seen as a road trace intersecting the mill site. One of the interesting aspects of the 1871 map is that it depicts numerous other mills in Wake County including several in St. Mary's Township in addition to the Griffis Mill. In fact, there were more than 70 grist mills operating in Wake County in 1870 (Hawkins 2008:2-3, 20). Although not seen in the extent shown in Figure 4.3-229, one the best known mills depicted on the map is Penney's Mill, located approximately 10 mi west of the Griffis Mill site. Penney's or Penny's Mill is now known as Yate's Mill and is the only standing grist mill in Wake County (Hawkins 2008:22). Yate's Mill dates to 1760 and operated until the 1950s. Having been



Figure 4.3-228: Location of 31WA663&663** and 31WA2076** in Relation to Current Battle Bridge Road.



Figure 4.3-229: Location of 31WA663&663** and 31WA2076** on 1871 Map of Wake County (Bevers 1871).



Figure 4.3-230: Recent View of Yates Mill (HPO# WA0050) in Wake County, North Carolina (Wikipedia 2017a).



Figure 4.3-231: Yates Mill circa 1890-1920 (Wikipedia 2017b).

restored from poor condition, it now operates as part of a historical park and was listed in the NRHP in 1970 (Figures 4.3-230 and 4.3-231). It is a fine example of a historic grist mill that operated during the period of the Griffis Mill and also has working internal machinery. A search of the HPOWeb GIS service of HPO revealed no other recorded standing grist mill sites in Wake County, but Hawkins (2008) describes the Lassiter Mill site in the City of Raleigh, of which only the dam and a portion of the mill foundation remain, and the mill at Lake Myra, which includes a collapsed mill building and other collapsed building components as well as the mill dam.

The location of the Griffis Mill can be seen in Figure 4.3-232, which is a 1964 orthoimage showing that the mill was in a heavily forested area at that time (and presumably already in ruins). A likely farm complex, now gone, is shown to the northwest of the mill site, but it is unclear whether this complex was related to the mill site, and the property is now owned by Wake County, as is the northern portion of the mill site itself (north of the Old Battle Bridge Road trace). Figure 4.3-233 shows the current parcel boundaries.

Jorgenson et al. (2008:5-12) consulted deed, census, and other primary and secondary material to assemble detailed historic background for 31WA663&663**. They note two places that the Griffis Mill appears in the historical record: the 1871 Map of Wake County (see Figure 4.3-229) and a map of the county from 1904. In addition to these references, they include an 1883 deed book division map showing the millpond and dam (as well as the former alignment of Battle Bridge Road) (Figure 4.3-234). Jorgenson et al. (2008) generally conclude that the historical record of the mill is limited to these maps, and Commonwealth found one other minor reference to the mill in a newspaper article from 1884 mentioning damage from heavy rains to several mill dams including the Griffis Mill dam (News and Observer 1884:1). Jorgenson el al. were able to reconstruct some of the history of the mill based on the owners of the property over time. They note that the first mention of the Griffis family in St Mary's Township is from the 1850 federal census. The family included the patriarch John (51 years old), his wife Patsey, sons Haywood and Paschal, and William, who may have been a brother to John. The men of the family are listed as farmers, except for Haywood who was a school-master of the age of 20. During this time their estate holdings are listed as \$600 and 13 slaves are also listed as part of their holdings. It is pointed out that these holdings pale in comparison to the 1860 census, where their property value is listed as \$6,500 with 20 slaves. Jorgenson et al. (2008) found that the census listed grist mills but did not list owners. In 1861, Haywood Griffis was appointed Secretary of the Friends of the South at a meeting held in St. Mary's Township, during which the body approved the action of the Governor to take the State out of the Federal Union (Weekly Standard 1861). In 1870, again based on the Jorgenson et al. (2008) census research, Haywood did not own a farm but is listed as a farmer.

In 1870 Haywood Griffis was in possession of a farm, and was still growing cotton as a primary crop and was still associated with African American families, likely former slaves (Jorgenson et al. 2008:7). It is during this period that the mill appears on the *Map of Wake County*, establishing a date by which it was in operation. However, Jorgenson et al. (2008:10) also report that they obtained oral history information from the Branch family, current owners of part of the mill site, that suggests that the mill was in operation by the time of the war and that Union troops used explosives to breach the mill dam and also burned the mill and miller's house. They also report that Union and Confederate soldiers were buried on the property, but that they are said to



Figure 4.3-232: Location of 31WA663&663** on 1964 Orthoimagery (USGS Earth Explorer 1964).



Figure 4.3-233: Locations of 31WA663&663** with Respect to Current Parcel Ownership.

BK000076PG00447 447 I winn of Lands of Haywood Briffis Deck Acur 91 Lot to 6 152 a \$ 2+15 154 am the and LA to 2 a's 155 a's 59% Division of June, Stithe Clerk of the Superior Courty Bayword triffinder) Vie the underigned Commissioners afforest appointed to divide and allot the lande belonging to the totale of Caywood Briffis Duck, second the heir Tured, met apon the furnices and after being worn proceeded to divide and allot the farmer ad follows ... Lot to degining at a black park Atump Sources Prypin's Corner runs as his live A 3/20 6 20 theirs to pointers on Meddleton bands time down Drie branch, to a Stake Correr of lot No2, there . A sig of 25 thains to a white bak being Pooly lover; Thenes_ J. 75° W 1.25 Chains to a Graple no the heads of a branch, Thence down Jaid branch & storkey branch; there up sin branch & a State at The head ; Propariel Jours Corner, Thener his line A 87° W 14 ching

Figure 4.3-234: 1883 Map Showing Division of the Haywood Griffis Lands (Wake County Register of Deeds Deed Book 76:447). Note that the mill pond and dam (red), Middleton Creek (blue), and the former alignment of Battle Bridge Road (see Battle Road, green) are shown.

have been moved after the war and that they were most likely along Battle Bridge Road to the east of the mill site. Based on an entry in the 1869 Branson's *North Carolina Business Directory*, Jorgenson et al. (2008:7) suggest that Haywood Griffis' ownership of a general store in the township may provide indirect evidence of his mill ownership, mostly based on the confluence of milling and merchandising of flour received through grinding tolls. The deed research conducted by Jorgenson et al. (2008:7-8) indicates that the property with the mill was actually acquired by Haywood Griffis in 1871, when he purchased an adjacent tract of land from Howard and Elizabeth Sturdivant "that almost certainly included the mill property" (Jorgenson et al. 2008:8). They note that there is no record establishing that Sturdivant was a miller, but that given the lack of documentation of milling operations in the records examined, this is not evidence that he did not own a mill. The property with the mill may have passed from the Griffis family to the Stallings family (James Alpheus Stallings and Mary Baucom Stallings) before being purchased by the current family of ownership (Branch) in 1918 (Atlas M. and Nora Branch). Today part of the mill site property is listed under Long Branch Farm, LLC, while the rest is owned by Wake County (see Figure 4.3-233).

The original non-compliance investigation of the site reported in Jorgenson et al. (2008) provided a detailed map of the intact features, which include the area of the former mill pond, the dam, the head race, the tail race, the mill itself (stone foundation remnants and wheel mount), a boulder engraved with letters, a set of stone rubble piles termed parts of a chimney fall (possible miller's house), a stone-lined well, a road bed trace likely the old alignment of Battle Bridge Road, and farther south of the site outside of the boundary another stone rubble pile with some articulated stones (recorded as 31WA2076**). Several piles of field stones just north of modern Battle Bridge Road were also documented (Jorgenson et al. 2008). The locations of all these reported features were visually confirmed and mapped in 2008. The URS archaeologists placed several shovel tests around each surface feature (a total of 24, 10 of which were positive) in an attempt to refine the date range for the occupation of the site. The majority of the artifacts came from five shovel tests around the rubble pile attributed to the possible miller's house. The historic assemblage (21 artifacts) recovered by URS around the possible miller's house dates the mill to the second half of the nineteenth century, but an assemblage of indeterminate rhyolite, quartz, and chert debitage (28 artifacts) was also recovered. The artifacts include a piece of ironstone, eight brick fragments, eight cut nails, a colorless container glass fragment, a lamp glass fragment, two indeterminate ferrous objects (corroded), all from the first zone of the shovel tests (Jorgenson et al. 2008:23). Around the mill itself an additional 17 artifacts were recovered, from both shovel tests and the surface. These items include five cut nails, a hand-painted whiteware fragment, a piece of window glass, a piece of glazed brick, an iron strap fragment and two iron barrel hoops, an iron spike, and iron circular saw blade, an iron shovel blade, a piece of indeterminate metal, and a small-caliber bullet (Jorgenson et al. 2008:38). Several of these items were recovered from the surface and the rest were from the first zone of shovel tests.

Commonwealth remapped the site (Figures 4.3-235) and redocumented the surface features with photographs (Figures 4.3-236 through 4.3-245). Commonwealth also augmented the URS work described above with a grid of shovel tests at 15-m intervals across the area of the site with the surface features, to both evaluate the likelihood of subsurface features and better define the different components of the site and the overall site boundary. A total of 66 shovel tests were excavated, with 14 yielding artifacts (Table 4.3-108). Half of the tests yielded lithic debitage and



Figure 4.3-235: Map of Site 31WA663&663** and 31WA2079. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-236: Mill Ruins at 31WA663&663** Showing the Front of the Mill Structure, Looking West. Note that the vertical white line shows northwestern corner and the horizontal white line shows the northern edge of the foundation.



Figure 4.3-237: Mill Structure at 31WA663&663**, Looking Southeast.



Figure 4.3-238: Detail of Northwestern Corner of Mill Structure (Shown with White Line to Right) and Rubble from Wheel Mount (Shown with White to Left) at 31WA663&663**, Looking Northeast.



Figure 4.3-239: Detail of Northeastern Corner and Northern Wall of Mill at 31WA663&663**, Looking Southwest.



Figure 4.3-240: Remant Section of Millpond Dam at 31WA663&663**, Looking West.



Figure 4.3-241: Mill Head Race at 31WA663&663**, Looking Northeast. Note that white line shows the base of the race.



Figure 4.3-242: Stone Pile or Possible Chimney Fall Representing Possible Miller's House at 31WA663&663**, Looking Northeast.



Figure 4.3-243: Stone-Lined Well Near Possible Miller's House at 31WA663&663**, Looking West.



Figure 4.3-244: Road Trace, Likely Old Battle Bridge Road Alignment, at 31WA663&663**, Looking Northwest.



Figure 4.3-245: Engraved Boulder at 31WA663&663**, Looking Northeast. Note that dark humus has been placed in grooves to make the letters more readable. Also, the engravings appear to be sets of initials, but they are not relateable to any individuals associated with ownership of the mill based on the research conducted by Jorgenson et al. (2008).

Object	Count
Metavolcanic Bifacial Thinning Flake	1
Plagioclase Porphyritic Rhyolite Bifacial Thinning Flake	1
Aphyric Rhyolite Interior Flake	2
Metavolcanic Interior Flake	7
Plagioclase Porphyritic Rhyolite Interior Flake	1
Plagioclase-Quartz Porphyritic Rhyolite Interior Flake	6
Quartz Interior Flake	8
Whiteware	16
Aqua Container Glass	10
Light Aqua Window Glass	3
Colorless Container Class	8
Solarized/ Manganese Dioxide Decolorized Container Glass	1
Glass Bead (White)	1
Iron Horseshoe	1
Iron Nail	5
Brick	2
Bone	2
Charcoal	1
Total	76

Table 4.3-108: Summary of Artifacts Recovered from 31WA663&663**.

half of them yielded historic artifacts, with more than half of the positive shovel tests yielding material from Zone 2. The artifacts were consistent with those found in 2008. In addition to this grid, three more judgmental shovel tests were placed immediately adjacent to possible miller's house. One was placed just west of the western-most stone pile (Shovel Test J1), one was placed between the two stone piles (Shovel Test J2), and one was placed just east of the larger of the two stone piles, which had a few articulated stones and several brick fragments in situ (Shovel Test J3). All three of these shovel tests were positive. Shovel Test J1 had just a brick fragment in Zone 1. Shovel Test J2, which was likely in the interior of the structure, yielded a single metavolcanic flake from Zone 2 and, at about 80 cmbs at the bottom of Zone 2, a piece of colorless window glass. Shovel Test J3 was very different than all the other shovel tests. The first two zones vielded 14 pieces of whiteware that are all part of the same serving platter (most of them refit together forming about 60 percent of the platter), lantern glass (colorless), cut nails, and a glass bead. Zone 3 yielded two quartz flakes and a piece of lantern glass, but in the eastern half of the shovel test from 48 to 88 cmbs there was a darker pocket of fill-like soil intruding into Zone 3. This potential cultural feature had charcoal suggesting the possibility of a burning event, but no cultural material was recovered from the fill, leaving interpretation ambiguous. This feature was located approximately 80 cm east of the few articulated stones that made up the exterior of the possible miller's house. The typical soil profile around the miller's house had three zones, with a brown (10YR 4/3) sandy loam A-horizon that averaged approximately 15 cm in thickness above a very pale brown (10YR 7/4) sandy loam Zone 2 (E-Horizon) that averaged about 50 cm in thickness. Below was a Zone 3 that was generally a yellowish brown (10YR 5/6) sand. The possible feature in J3 held dark yellowish brown (10YR 4/4) sand mottled with

charcoal. In other parts of the site, shovel tests reached a Zone 3 of yellowish brown (10YR 5/8) sandy clay that was the subsoil.

The historic assemblage from the current investigation consists of 47 historic artifacts from nine shovel tests and two surface finds (see Table 4.3-108). Six of the shovel tests recovered historic items from the A-horizon, while only three yielded historic material from beneath the A-horizon. These artifacts included undecorated whiteware, which dates from as early as 1830 through the twentieth century (Miller et al. 2000:13), machine cut nails potentially dating from 1790 to the present (Nelson 1968), and solarized/ manganese dioxide decolorized container glass dating from the 1820s to 1930s (Lindsey 2017). A complete iron horseshoe (possibly a pony or mule shoe) was found on the ground surface. Non-diagnostic items include aqua and colorless glass, a white glass bead, light aqua window glass, a complete brick (found on the surface), and brick fragments. Figures 4.3-246 through 4.3-248 show a selection of the artifacts recovered from the site, including a portion of the whiteware platter discussed above.

The Native American component includes 29 artifacts from 11 shovel tests, with bifacial thinning and interior flakes with metavolcanic, quartz, aphyric rhyolite, plagioclase-quartz porphyritic rhyolite, and plagioclase porphyritic rhyolite stone materials represented. All artifacts came from beneath the A-horizon, possibly owing to bioturbation, except for a quartz interior flake found in Shovel Test 49. No concentrations of artifacts or evidence suggesting intact deposits were encountered, however.

IN-DEPTH EVALUATION AND RECOMMENDATIONS: The Griffis Mill site is associated with the theme of grist milling in nineteenth-century Wake County and the North Carolina Piedmont in general. Grist mills of its general size, location, and era were typically custom mills that worked on a toll basis, collecting a portion of the flour or meal based on what a local producer brought for grinding (Hawkins 2008:2). Such mills were often significant to surrounding communities, as they often became a center for other commercial ventures and for community gathering for economic and social exchange (Hawkins 2008:11-12; Lovett and Lautzenheiser 2002:245). As an archaeological site defined by above-ground ruins, the Griffis Mill site includes elements ranging from standing stone wall and dam sections to stone rubble piles and earthen features (road and race traces). Essentially, the elements of a water-powered mill as outlined in Lovett and Lautzenheiser's mill context for Tennessee (2002:249) are all represented by the ruins and topography of the site: the mill building, the dam and storage pond, the head race, the tail race, and the miller's residence. Missing, however, are various aspects of these elements such as the actual mill pond, the components of the buildings beyond foundation and/or chimney remnants, and the machinery and mill stones that would inform us of the specific technology and type of processing employed at the mill.

For evaluation of the site under Criteria A, B, and C of the NRHP (significance for association or for design/construction), it is necessary to look at the site with respect to integrity including integrity of location, design, setting, materials, workmanship, feeling, and association (Shrimpton and Andrus 1991:44). Integrity of location is present, as the site is in the place where it was constructed and the activities associated with grist milling were carried out. The only other aspect of integrity that *may* be present is association. Association "requires the presence of physical features that convey a property's historic character" (Shrimpton and Andrus



Figure 4.3-246: Glass Bead from 31WA663&663** (Acc.# 2017.020.19).



Figure 4.3-247: Whiteware Platter Rim Fragment from 31WA663&663** (Acc.# 2017.020.19).



Figure 4.3-248: Historic Artifacts from 31WA663&663**: a-c) Cut Nails (Acc.# 2017.0202.13); d) Whiteware (Acc.# 2017.0202.13).

1991:45). Certainly the mill site could be seen as compelling in that it evokes the sense of a complex of visible ruins related to milling that are situated in a landscape with essential features (e.g., stream valley, raceways, old road grade) that can still be understood in terms of how the mill functioned. The sense of association alone, however, is somewhat subject to individual perception and is likely not sufficient to support NRHP eligibility. Furthermore, the poor condition of the above-ground elements places limitations on perception, and evidence for extensive intact archaeological deposits that would provide information related to the area of association does not appear to be present. The remaining aspects of integrity (design, setting, materials, workmanship, and feeling) do not appear to be present. The features comprising the site lack sufficient completeness to convey the original design of the complex and the material elements and specific features that would display workmanship beyond masonry work. In other words, it is impossible to see how the buildings and overall complex was conceived, executed, and modified over time, even if we can tell something of the selection process for positioning the dam, races, and mill in the landscape. Presence of key exterior building materials and interior machinery dating the period of significance is considered an essential aspect of integrity for evaluating mills (Lovett and Lautzenheiser 2002:248-249). With respect to setting and feeling, the site is now in a mature woodland setting, was abandoned and neglected for at least most of the twentieth century, and does not convey the sense of the open areas, mill pond, and activities that would have been associated with a working mill. Specifically related to feeling, the mill site rather imparts a different feeling-one of ruins in a picturesque setting that is somewhat unrelated to the how the original complex would have been perceived.

Continuing with NRHP evaluation under Criteria A, B, and C, it is recommended that the mill site has insufficient integrity to convey its association with the historic context of grist milling (pattern of events) under Criterion A. The NRHP guidelines for evaluation clearly state that archaeological sites eligible under Criterion A must be in "overall good condition with excellent preservation of features, artifacts, and spatial relationships to the extent that these remains are able to convey important associations with events or persons" (Shrimpton and Andrus 1991:46). The mill site is also recommended as not eligible under Criterion B, as background research revealed no information to support and association with individuals significant in our past. For Criterion C, the mill site lacks sufficient integrity to stand as an important example of a type, period, or method of construction. In fact, the mill appears to date a period defined by Lovett and Lautzenheiser (2002:250) (the Late Industrialization Period, 1860-1900) where mill buildings are more common and it is less likely that the Griffis Mill was an unusual example of mill construction. This, however, is only speculation as we cannot readily understand the details of the mill's construction. In contrast, the nearby NRHP-listed Yate's Mill, discussed above, is an excellent example of a well-preserved mill overlapping with the Griffis Mill period of operation and having both the standing mill and interior working machinery.

Finally, with respect to evaluation under Criterion D of the NRHP, the mill site is also lacking sufficient integrity, but in this case not relating to its appearance but rather to the ability to yield specific data addressing important research questions. Lovett and Lautzenheiser (2002:246) suggest that important information might include the dimensions of the buildings, details on the power source and machinery used (from artifacts), and a history of how the site was used and eventually abandoned. Although some foundation walls related to the mill building still stand, it appears unlikely that detailed measurements will yield additional information on the nature of

the mill building. Subsurface archaeological investigations also yielded little evidence that the site contains intact deposits capable of answering questions about the mill's economic and social history. No cultural deposits were recovered from within features or suspected intact cultural strata, other than charcoal from a potential feature that could be related to a burning event (in Shovel Test J3 near the possible miller's house). Due to the very limited evidence for archaeological information potential and the likelihood that further analysis of the ruin elements would not yield significant new information, Commonwealth recommends that the mill site is not eligible for the NRHP under Criterion D in addition to not meeting eligibility criteria under Criteria A, B, and C. It also does not appear that the Native American component of the site would yield significant information on historic or precontact Native American settlement.

SITE NUMBER: 31WA2076**

SITE TYPE: Historic structure ruin: late nineteenth and twentieth century

SOIL TYPE: Appling sandy loam, 6 to 10 percent slopes

SITE SIZE: 9 x 7 m (28 x 24 ft)

SELECTED ARTIFACTS: square cut iron nail

COMMENTS: This historic ruin is located about 100 m southwest of the southern edge of the Griffis Mill site on the same upland flat (31WA663&663**) and as such was considered a separate site based on the criteria set forth in the scope of work (see Figures 4.3-2d and 4.3-228; Figure 4.3-249). The ruin is a 1.5-m-long segment of a substantial stone wall with three stone courses still articulated (Figure 4.3-250). The interior side of the wall has a bank of stone rubble. This would have supported a large structure, and the material appears to be local stone and similar to the stones in features associated with the mill site. Two judgmental shovel tests were placed east (interior) and west (exterior) of this wall (see Figure 4.3-249). Only the interior shovel test recovered cultural material, a cut iron nail from Zone 1. The typical soil profile in shovel tests had three zones: Zone 1 of a brown (10YR 4/3) sandy loam A-horizon about 20 cm thick over a Zone 2 of a light yellowish brown (10YR 6/4) sand (E-horizon) about 15 cm thick. Below this was Zone 3, a yellowish brown (10YR 5/8) sandy clay subsoil. The interior shovel test had deeper soils and did not reach a subsoil but rather a gravel rich layer of sand. This site appears to be associated or at least contemporary with the Griffis Mill site features and is inventoried as such in Jorgenson et al. (2008:24), who refer to it as the possible main house or landowner's house. It has a similar masonry, in both style and source material, as the two stone piles at the possible miller's house and the foundation of the mill itself.

RECOMMENDATIONS: Due to the poor condition of the wall section, the low density of artifacts, and the lack of evidence for intact subsurface deposits, this ruin is unlikely to provide additional information on the historic occupation of the Piedmont region of North Carolina or on the historic context of milling associated with the adjacent Griffis Mill site. The site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2077

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Appling fine sandy loam, 2 to 6 percent slopes

SITE SIZE: 16 x 14 m (53 x 47 ft)

SELECTED ARTIFACTS: quartz interior flakes

COMMENTS: A pair of quartz flakes was encountered while shovel testing in a wooded area on the edge of an upland flat north of Battle Bridge Road. These artifacts were recovered from



Figure 4.3-249: Map of Site 31WA2076. Base Mapping and Contours from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-250: Possible Wall Ruin at 31WA2076**, Looking Northeast.
Zone 2 of a positive shovel test. The presence of these materials in Zone 2 is the result of bioturbation. Radial shovel tests were excavated in four directions at 15-m intervals. *RECOMMENDATIONS:* This pair of isolated artifacts lack sufficient context for further interpretation and are unlikely to yield additional information on Native American settlement of

the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2078

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Enon fine sandy loam, 2 to 6 percent slopes, moderately eroded

SITE SIZE: 20 x 16 m (67 x 52 ft)

SELECTED ARTIFACTS: metavolcanic flake fragment

COMMENTS: A single metavolcanic flake fragment was recorded 125 m northwest of 31WA2077 during shovel testing in a wooded area situated on an upland flat in Segment LL. The flake was located in Zone 2 of a positive shovel test. The presence of this lithic artifact in Zone 2 of the positive test is likely a result of bioturbation. Radial shovel tests were excavated in four directions at 15-m intervals but no additional material was recovered.

RECOMMENDATIONS: This isolate lacks context for further interpretation and is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2079

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Chewacla sandy loam, 0 to 2 percent slopes, frequently flooded

SITE SIZE: 35 x 24 m (115 x 82 ft)

SELECTED ARTIFACTS: aphyric rhyolite bifacial thinning flake, metavolcanic interior flakes, plagioclase-quartz porphyritic rhyolite interior flake, quartz interior flake, quartzite interior flake

COMMENTS: The site, straddling a wooded area and a pasture, was initially encountered while shovel testing in the woods on a stream terrace on the opposite bank of a creek that runs along the historic mill (31WA663&663**) found in Segment LL (See Figure 4.3-235) (Figure 4.3-251). The artifact assemblage recovered (n=7) derived from three positive shovel tests, as well as the ground surface in the pasture adjacent to the woods. The surface-collected artifacts include an aphyric rhyolite bifacial thinning flake, a plagioclase-quartz porphyritic rhyolite interior flake, and two metavolcanic interior flakes. Additionally, a metavolcanic interior flake and a quartz interior flake were located in Zone 2 of two respective positive shovel tests, and a quartzite interior flake was located in Zone 1 of another positive shovel test. Shovel tests excavated at the site predominantly exhibited a three-zone soil profile: Zone 1, typically a dark yellowish brown (10YR 4/4) silty loam A-horizon approximately 15 cm in thickness; Zone 2, a yellowish brown (10YR 6/6) sandy E-horizon approximately 15 cm in thickness; and Zone 3, a dark yellowish brown (10YR 4/6) sandy clay subsoil. However, some shovel tests excavated at the site contained only two soil zones, and Shovel Test 1 contained four soil zones. The presence of cultural materials found in Zone 2 of the positive shovel tests excavated at the site is likely the result of bioturbation.

RECOMMENDATIONS: Given the low artifact density, lack of diagnostic artifacts, and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide



Figure 4.3-251: View of Site 31WA2079, Looking East.

additional information on Native American inhabitants of the Central Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

Segment MM (STIP R-2829)	
Length	457.17 m (1,499.92 ft)
Area	21.50 ha (53.24 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	4.95 ha (12.33 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	9.18 ha (22.69 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	7.37 ha (18.22 acres)
Total # of Shovel Tests	118
Total # Sites Documented	1
Total # Isolated Finds Documented	

Table 4.3-109: Segment MM Survey Summary.

Segment MM begins at the Neuse River and continues northward for approximately 457.17 m (1,499.92 ft) to end at Auburn Knightdale Road (see Figure 4.3-1e). The segment extends east and west along Auburn Knightdale Road for a total of 1,151 m (3,776 ft). Soils in Segment MM are of Altavista, Appling, Roanoke, Wedowee, Warne, and other soil series. Most are loamy sands or sandy loams. The most extensive soil unit in the segment is Altavista fine sandy loam, 0 to 6 percent slopes, rarely flooded. Drainage classifications of soils in Segment MM range from well-drained to poorly drained. At the time of the survey, ground cover in Segment MM consisted of woods, cattle pasture, farmed trees, and residential lots. Much of the pasture close to Auburn Knightdale Road was coded as moderately eroded. In addition to the Neuse River, a pond covering at least 0.80 ha (2.00 acres) of the segment is located at the eastern edge of the survey area. Survey in Segment MM consisted of shovel testing at 30-m (98-ft) intervals, and visual inspection at 30-m (98-ft) intervals in areas that were coded as moderately eroded or poorly drained. Survey resulted in the identification of one archaeological site in Segment MM (see Figure 4.3-2e).

SITE NUMBER: 31WA2080

SITE TYPE: Native American lithic scatter: unattributed *SOIL TYPE:* Warne fine sandy loam, 0 to 2 percent slopes, occasionally flooded *SITE SIZE:* 28 x 15 m (91 x 50 ft) *SELECTED ARTIFACTS:* metavolcanic bifacial thinning flakes, metavolcanic interior flakes, plagioclase porphyritic rhyolite interior flake

COMMENTS: The small lithic scatter was recorded during shovel testing in a pasture located within the flood plain just north of the Neuse River in Segment MM (Figures 4.3-252 and 4.3-253). The artifacts recovered from the site (n=9) derived from two positive shovel tests (Shovel Tests 1 and 6). Zone 2 of Shovel Test 1 contained four metavolcanic bifacial thinning flakes, a plagioclase porphyritic rhyolite interior flake, and three metavolcanic interior flakes. Zone 1 of Shovel Test 2 contained a metavolcanic interior flake. The typical soil profile of the site contained three soil zones: Zone 1, a brown (10YR 5/3) silty loam A-horizon that was approximately 15 cm in thickness; Zone 2, a light gray (10YR 7/2) silty clay E-horizon approximately 15 cm in thickness; Zone 3, a pale brown (10YR 6/3) hydric silty clay subsoil. The artifacts located in Zone 2 at the site likely were moved downward through bioturbation. *RECOMMENDATIONS:* Given the low artifact density, lack of diagnostic artifacts, and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Central Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

Segment NN (STIP R-2829)	
Length	912.42 m (2,993.49 ft)
Area	35.86 ha (88.62 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	5.86 ha (14.47 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	.93 ha (2.29 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	15.73 ha (38.87 acres)
Total Area Shovel Tested with Judgmental Test Placement	.42 ha (1.05 acres)
Total Area Shovel Tested at Expanded Interval	4.38 ha (10.83 acres)
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	1.62 ha (4 acres)
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	6.92 ha (17.11 acres)
Total # of Shovel Tests	291
Total # Sites Documented	2
Total # Isolated Finds Documented	2

Table 4.3-110: Segment NN Survey Summary.

Segment NN, which is approximately 913.98 m (2,998.61 ft) long, begins at Auburn Knightdale Road and extends to the northeast to a tree line between two fields (see Figure 4.3-1e). The segment extends east and west along Auburn Knightdale Road for a total of 1,151 m (3,776 ft). Soils in Segment NN primarily consist of Appling sandy loam, with Wagram, Chewacla, and other soils present. The most extensive soil unit in the segment is Appling sandy loam, 6 to 10 percent slopes. Appling soils are classified as well-drained, Wagram soils are classified as



Figure 4.3-252: Map of Site 31WA2080. Base Mapping from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-253: View of Site 31WA2080, Looking South.

somewhat excessively drained, and Chewacla are classified as somewhat poorly drained. At the time of the survey, ground cover in Segment NN consisted of woods, agricultural fields, and residential lots. Ground surface visibility in the agricultural fields was 60 to 80 percent and survey in the fields consisted of surface survey at 10-m (33-ft) intervals. Most of the rest of the segment could be shovel tested. Shovel testing was conducted at 30-m (98-ft) intervals. Portions of segment NN were coded as moderately eroded, severely eroded, or wet, and these areas were visually inspected at 30-m (98-ft) intervals. Survey resulted in the identification of two archaeological sites and two isolated finds in Segment NN (see Figure 4.3-2e). A relatively extensive site, 31WA2082&2082**, was identified in a cultivated field at the northern edge of the segment near the unnamed road. Artifacts were found both on the surface of the field and in multiple shovel tests.

SITE NUMBER: 31WA2081

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Durham loamy sand, 2 to 6 percent slopes

SITE SIZE: 89 x 35 m (293 x 114 ft)

SELECTED ARTIFACTS: aphyritic rhyolite interior flake, metavolcanic interior flakes, plagioclase porphyritic rhyolite interior flake, quartz interior flake

COMMENTS: The site was initially encountered during the visual assessment of a plowed soybean field with reasonably good surface visibility located adjacent to Auburn-Knightdale Road in an upland flat area along the southern edge of Segment NN (Figures 4.3-254 and 4.3-255). Once artifacts were encountered on the ground surface, judgmental shovel tests were excavated. The artifacts recovered from the site (n=11) are summarized in Table 4.3-111, nine of which were encountered on the ground surface. These surface collected items include a plagioclase porphyritic rhyolite interior flake and eight metavolcanic interior flakes. One shovel test was confirmed positive, and contained an aphyric rhyolite interior flake and a quartz interior flake—each located within the plow zone of the test. The typical soil profile of the site contained three zones: Zone 1, a dark yellowish brown (10YR 5/4) sandy loam plow zone that was approximately 30 cm in thickness; Zone 2, a yellowish brown (10YR 5/8) clay subsoil.

Object	Count
Aphyric Rhyolite Interior Flake	1
Metavolcanic Interior Flake	8
Plagioclase Porphyritic Rhyolite Interior Flake	1
Quartz Interior Flake	1
Total	11

Table 4.3-111: Summary of Artifacts Recovered from 31WA2081.

RECOMMENDATIONS: Given the low artifact density and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Central Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.



Figure 4.3-254: Map of Site 31WA2081. Base Mapping from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-255: View of Site 31WA2081, Looking North.

SITE NUMBER: 31WA2082&2082**

SITE TYPE: Native American scatter: Middle Archaic to Middle Woodland; Historic scatter: Early Nineteenth to Twentieth Century

SOIL TYPE: Wagram loamy sand, 6 to 10 percent slopes

SITE SIZE: 283 x 248 m (930 x 817 ft)

SELECTED ARTIFACTS: Native American Yadkin series ceramics, indeterminate Native American ceramics, quartz Guilford Lanceloate point, quartz Savannah River Stemmed point, aphyric rhyolite indeterminate point, quartz indeterminate points, metavolcanic decortication flakes, aphyric rhyolite bifacial thinning flakes, metavolcanic bifacial thinning flakes, plagioclase porphyritic rhyolite bifacial thinning flakes, quartz bifacial thinning flakes, aphyric rhyolite interior flakes, metavolcanic interior flakes, plagioclase porphyritic rhyolite interior flakes, quartz interior flakes, quartz porphyritic rhyolite interior flakes, rhyolitic breccia interior flakes, quartz shatter, metavolcanic flake fragments, plagioclase porphyritic rhyolite fragment, quartz fragment, transfer-printed pearlware, glass marble, aqua container glass, brick fragments **COMMENTS:** This multicomponent site was initially encountered during the visual assessment of two adjacent harvested soybean fields containing favorable surface visibility. The fields are situated at the top of the southernmost lobe of a prominent ridge bordered by two unnamed tributaries of the Neuse River (Figures 4.3-256 and 4.3-257). The site is quite large and straddles nearly the entire width of the APE. The Neuse River is located approximately 700 m to the southwest. The larger of the two fields making up the site is set to the north and covers most of the higher portion of the landform. The smaller field comprises most of the southern slope of the landform. The site assemblage (n=252) was primarily collected on the top of the landform, but some of these artifacts were encountered in the lower of the two field comprising the site. This lower field, which slopes south towards an adjacent forest, contained a less dense concentration of artifacts, which may be the result of colluvial deposition.

Numerous Native American ceramic sherds were encountered on a widely spread section of the ground surface, prompting intensive close-interval shovel testing (15-m) across the extent of the site. This approach was taken based on the possibility of widely distributed features that might not be detected by isolated test units, as would be expected on a Woodland period site of this size (possibly a hamlet rather than a small camp), and to try and locate evidence for one of those features persisting below the plow zone. Seventeen of these shovel tests recovered cultural material. The grid of shovel tests, in combination with effective pedestrian survey under good visibility, appears to have provided better coverage of the site than several units, which would have severely limited the potential of encountering features. Unfortunately, no features or significant sub-plow-zone deposits were located. Shovel testing revealed a three-zone soil profile at the site: Zone 1, a brown (10YR 4/3) sand plow zone approximately 22 cm in thickness; Zone 2, a brownish yellow (10YR 6/6) sandy E-horizon approximately 50 cm in thickness; Zone 3, a yellowish brown (10YR 5/8) sandy clay subsoil. Seven of the positive shovel tests recorded at the site contained artifacts from beneath the plow zone, which could be the result of bioturbation and graviturbation (c.f., Peterson and Mohler 2002).

The Native American component of the site yielded 234 artifacts, which derived from the surface and also from the plow zone and Zone 2 of positive shovel tests. These artifacts include 16 Yadkin series ceramic sherds (Figure 4.3-258), 93 indeterminate ceramic sherds (Figure 4.3-259, Figure 4.3-263 and 4.3-264), a quartz Guilford Lanceolate point, a quartz Savannah River



Figure 4.3-256: Map of Site 31WA2082&2082**. Base Mapping from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-257: View of Site 31WA2082&2082**, Looking South.



Figure 4.3-258: Yadkin Series Ceramics from 31WA2082&2082**, Fabric Impressed Body Sherds (Acc.# 2017.0209.11).



Figure 4.3-259: Yadkin Series Ceramics from 31WA2082&2082**, Fabric Impressed Body Sherds (Acc.# 2017.0209.11).



Figure 4.3-260: Points from 31WA2082&2082**: a) Possible Savannah River Stemmed (Acc.# 2017.0209.13); b) Guilford Lanceolate (Acc.# 2017.0209.09).



Figure 4.3-261: Indeterminate Stemmed Point from 31WA2082&2082** (Acc.# 2017.0209.20).



Figure 4.3-262: Indeterminate Point from 31WA2082&2082** (Acc.# 2017.0209.03).



Figure 4.3-263: Indeterminate Impressed Body Sherds from 31WA2082&2082** (Acc.# 2017.0209.26).



Figure 4.3-264: Indeterminate Net Impressed Rim and Body Sherds from 31WA2082&2082** (Acc.# 2017.0209.27).

Stemmed point (Figure 4.3-260), an aphyric rhyolite indeterminate point (Figure 4.3-262), two quartz indeterminate points (Figure 4.3-261), a quartz indeterminate point tip, two metavolcanic decortication flakes, an aphyric rhyolite bifacial thinning flake, 16 metavolcanic bifacial thinning flakes, two plagioclase porphyritic rhyolite bifacial thinning flakes, a quartz bifacial thinning flake, 10 aphyric rhyolite interior flakes, 34 metavolcanic interior flakes, two plagioclase porphyritic rhyolite interior flakes, two quartz porphyritic rhyolite interior flakes, 41 quartz interior flakes, two quartz porphyritic rhyolite interior flakes, a rhyolitic breccia interior flake, four metavolcanic flake fragments, two pieces of quartz shatter, a plagioclase porphyritic rhyolite fragment, and a quartz fragment. Guilford Lanceolate points date to the Middle Archaic period (Ward and Davis 1999:24-24, 61), while the Savannah River Stemmed type is normally attributed to the Late Archaic period (Coe 1964:44-45).

Of primary interest at this site was the high density of Native American ceramics, a total of 109 sherds, found through the surface collection and subsequent shovel tests, with the bulk of them found on the surface. The ceramics are fairly consistent, with small to moderate-sized sherds with a compact paste and medium to coarse sand temper or crushed quartz temper. Interiors appear to be generally plain except for a few examples of spalled, smoothed, and lightly scraped interiors, and the assemblage indicates the presence of net-impressed, cord-impressed, and fabric-impressed exterior surface treatments. Nearly half of the sherds recovered had indeterminate surface treatments, however. A few sherds are of the Yadkin series dating to the Middle Woodland period, approximately 500 B.C. to A.D. 500 (Coe 1964:30-32; Ward and Davis 1999:86). Only three shovel tests yielded Native American ceramics, two of these from beneath the plow zone.

The historic component of the site contains only 18 artifacts, all of which were located on the surface at the site. These items include a blue transfer-printed pearlware fragment, a piece of aqua bottle glass, a glass marble, and 15 brick fragments. Pearlware production dates range from 1795 to 1830 (Noel Hume 1969). Glass marbles production range from 1901 to the present (JPPM 2017). These totals are included in the summary found in Table 4.3-112.

Object	Count
Native American Yadkin Series Ceramic	16
Indeterminate Native American Ceramic	93
Quartz Guilford Lanceolate Point	1
Quartz Savannah River Stemmed Point	1
Aphyric Rhyolite Indeterminate Point	1
Quartz Indeterminate Point	2
Quartz Indeterminate Point Tip	1
Metavolcanic Decortication Flake	2
Aphyric Rhyolite Bifacial Thinning Flake	1
Metavolcanic Bifacial Thinning Flake	16
Plagioclase Porphyritic Rhyolite Bifacial Thinning Flake	2
Quartz Bifacial Thinning Flake	1

Table 4.3-112: Summary of Artifacts Recovered from 31WA2082&2082**.

Aphyric Rhyolite Interior Flake	10
Metavolcanic Interior Flake	34
Plagioclase Porphyritic Rhyolite Interior Flake	2
Quartz Interior Flake	41
Quartz Porphyritic Rhyolite Interior Flake	2
Rhyolitic Breccia Interior Flake	1
Metavolcanic Flake Fragment	4
Quartz Shatter	2
Plagioclase Porphyritic Rhyolite Fragment	1
Quartz Fragment	1
Pearlware	1
Glass Marble	1
Aqua Container Glass	1
Brick Fragment	15
Total	252

RECOMMENDATIONS: Despite the plowing that has disturbed the site; a substantial assemblage of Native American ceramic artifacts was recovered from the top of the landform, including several diagnostic ceramics and points. However, the extensive subsurface investigation of the site yielded no evidence to suggest intact subsurface features, and further investigation of the site's plow zone deposits would be unlikely to yield additional significant information. Very few artifacts were recovered from beneath the plow zone and were most likely transported through bioturbation in these sandy soils. Beyond the survey-level data that has been recovered, this site appears to have little potential to provide additional significant information on the precontact Native American or historic inhabitants of the Central Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2083

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Appling sandy loam, 6 to 10 percent slopes

SITE SIZE: 17 x 15 m (57 x 50 ft)

SELECTED ARTIFACTS: quartz interior flake

COMMENTS: A single interior quartz flake was recovered during shovel testing in a secondary mixed and planted pines forest on the side slope of an upland, approximately 130 m southwest of 31WA2082&2082**. This isolate was recovered from Zone 2 of a positive shovel test, with the stratigraphic position of the flake likely resulting from bioturbation. Radial shovel tests were excavated in four directions at 15-m intervals, but no additional material was recovered. **RECOMMENDATIONS:** This artifact lacks sufficient context for further interpretation and its location is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2084

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Appling sandy loam, 2 to 6 percent slopes

SITE SIZE: 17 x 15 m (57 x 50 ft)

SELECTED ARTIFACTS: quartz interior flake

COMMENTS: A single interior quartz flake was recovered during shovel testing in a planted pine forest located on a gentle side slope along an unnamed tributary. This isolate was recovered from Zone 1 of a positive test located 130 m south of 31WA2082&2082**. Radial shovel tests were excavated in four directions at 15-m intervals but no additional material was recovered. **RECOMMENDATIONS:** The artifact lacks sufficient context for further interpretation and its location is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

Segment OO (STIP R-2829)	
Length	969.1 m (3,179.46 ft)
Area	28.73 ha (71.00 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	15.72 ha (38.84 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	6.15 ha (15.20 acres)
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	.04 ha (.11 acres)
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	6.82 ha (16.85 acres)
Total # of Shovel Tests	241
Total # Sites Documented	3
Total # Isolated Finds Documented	

Table 4.3-113: Segment OO Survey Summary.

Segment OO is approximately 931.81 m (3,057.12 ft) long and begins at the tree line where it abuts Segment NN, and ends at a trail off of the end of Scenic Woods Drive (see Figure 4.3-1e). Nearly half of Segment OO is covered by Appling sandy loam. Wagram loamy sand, Wedowee sandy loam, and a small area of Worsham sandy loam are also present. The most extensive soil unit in the Segment is Appling sandy loam, 6 to 10 percent slopes, moderately eroded. Appling and Wedowee soils are classified as well-drained, and Wagram soils are classified as somewhat excessively drained. At the time of the survey, ground cover in Segment OO primarily consisted of woods. An agricultural field is located at the south end of the segment, with low surface visibility. Ground surface visibility was low across the segment. Four artificial ponds are

located within the segment and encompass a total of approximately 2.73 ha (6.73 acres). Roughly half of the segment was coded as moderately eroded. Survey in Segment OO consisted of visual inspection at 30-m (98-ft) intervals in areas that were coded as moderately eroded, slope, or wet, and of shovel testing at 30-m (98-ft) intervals elsewhere in the segment. Survey resulted in the identification of three archaeological sites in Segment OO (see Figure 4.3-2e). One site, 31WA2087, is located at the northern edge of the segment and overlaps Segment PP. Most of this site's area is located in Segment PP.

SITE NUMBER: 31WA2085

SITE TYPE: Native American scatter: Woodland

SOIL TYPE: Wagram loamy sand, 0 to 6 percent slopes

SITE SIZE: 171 x 81 m (561 x 266 ft)

SELECTED ARTIFACTS: indeterminate Native American ceramics, metavolcanic indeterminate eared triangle point, quartzite decortication flakes, aphyric rhyolite bifacial thinning flakes, metavolcanic bifacial thinning flakes, plagioclase porphyritic rhyolite bifacial thinning flakes, quartz bifacial thinning flake, rhyolitic breccia bifacial thinning flake, aphyric rhyolite interior flakes, metavolcanic interior flakes, plagioclase porphyritic rhyolite interior flakes, quartz porphyritic rhyolite interior flake, quartz interior flakes, quartz porphyritic rhyolite interior flakes, metavolcanic flake, rhyolitic breccia interior flakes, metavolcanic flake fragments, quartz shatter

COMMENTS: This Native American scatter is located about 80 meters north of 31WA2082/2082** on higher elevation in a portion of the same upland flat in Segment OO (Figure 4.3-265). It was encountered while shovel testing in a grassy pasture (Figure 4.3-266). The site assemblage (n=262) was derived from shovel tests and test units. Nearly all of the artifacts were recovered from beneath the plow zone with a higher concentration of materials located in the eastern half of the site. Shovel testing revealed a three-zone soil typical profile for the site: Zone 1, a brown (10YR 4/3) sandy loam plow zone approximately 20 cm in thickness; Zone 2, a light yellowish brown (10YR 6/4) sandy E-horizon approximately 50 cm in thickness; and Zone 3, a reddish yellow (7.5YR 6/8) sandy clay. All three zones had some evidence of bioturbation from roots.

IN DEPTH EVALUATION: Two 1-x-1-m test units were excavated at the site based on the moderate density of artifacts recovered from beneath the plow zone. No features were encountered. Test Unit 1 was excavated near Shovel Tests 5, 14, 15, and 69 (the area of greatest artifact density). Excavation of the unit revealed a three-zone soil profile: Zone 1 a dark yellowish brown (10YR 4/4) sandy loam plow zone in 18 cm in thickness; Zone 2, an olive yellow (2.5Y 6/6) sandy E-horizon 82 cm in thickness; and Zone 3, a light olive brown (2.5Y 5/6) sand sterile portion of the E-horizon. Test Unit 1 had no features, and the only sign of disturbance appeared to be from bioturbation and plowing (Figures 4.3-267 and 4.3-268).

Test Unit 1 yielded 91 artifacts, with bifacial thinning flakes, interior flakes, shatter, and flake fragments of quartz, metavolcanic, aphyric rhyolite, plagioclase porphyritic rhyolite, and rhyolitic breccia stone materials present (Table 4.3-114). All artifacts were recovered from Zone 2 of the unit. Artifacts were recovered from each of the eight 10-cm levels in Zone 2 of the unit, until a sterile sand layer was reached. Artifact density increased with each level until it peaked in Levels 3, 4, and 5 of the unit (each containing 23 artifacts), artifact density then decreased with depth after this.



Figure 4.3-265: Map of Site 31WA2085. Base Mapping from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-266: View of Site 31WA2085, Looking East.



Figure 4.3-267: Site 31WA2085, Test Unit 1, Sketch of East Profile.



Figure 4.3-268: 31WA2085, Test Unit 1, Photograph of East Profile.

Object	Zone/Level	Count	Percentage in Test Unit
Aphyric Rhyolite Interior Flake	2/1	1	1.08%
Metavolcanic Interior Flake	2/1	4	4.30%
Plagioclase Porphyritic Rhyolite Interior Flake	2/1	1	1.08%
Metavolcanic Flake Fragment	2/1	1	1.08%
Aphyric Rhyolite Interior Flake	2/2	2	2.15%
Quartz Interior Flake	2/2	2	2.15%
Aphyric Rhyolite Bifacial Thinning Flake	2/3	1	1.08%
Metavolcanic Bifacial Thinning Flake	2/3	1	1.08%
Rhyolitic Breccia Bifacial Thinning Flake	2/3	1	1.08%
Aphyric Rhyolite Interior Flake	2/3	2	2.15%
Metavolcanic Interior Flake	2/3	3	3.23%
Quartz Interior Flake	2/3	13	13.98%
Quartz Shatter	2/3	1	1.08%
Metavolcanic Interior Flake	2/4	3	3.23%
Quartz Interior Flake	2/4	19	20.43%
Quartz Shatter	2/4	1	1.08%
Quartz Interior Flake	2/5	23	24.73%
Aphyric Rhyolite Interior Flake	2/6	1	1.08%
Quartz Interior Flake	2/6	9	9.68%
Quartz Interior Flake	2/7	3	3.23%
Aphyric Rhyolite Interior Flake	2/8	1	1.08%
Total		93	100.00%

Table 4.3-114: Summary of Artifacts Recovered 31WA2085 Test Unit 1 by Zone/Level.

Test Unit 2 was placed between Shovel Tests 1, 11, and 31 to investigate an area where indeterminate Native American ceramics were recovered. The unit contained a two-zoned soil profile: Zone 1, a dark yellowish brown (10YR 4/4) sandy loam plow zone 14 cm in thickness and Zone 2, a light yellowish brown (2.5Y 6/4) sandy E-horizon (Figures 4.3-269 and 4.3-270). Excavation was halted after two sterile levels were encountered.

This test unit yielded 73 artifacts including a decortication flake, bifacial thinning flakes, interior flakes, and quartz shatter (Table 4.3-115). All artifacts were recovered from Zone 2 but there were only three 10 cm levels that yielded artifacts. Artifact density decreased with unit depth.

The artifacts in the site assemblage, not yet discussed, were recovered from the shovel tests and include decortication flakes, bifacial thinning flakes, interior flakes, flake fragments, and shatter of quartz, metavolcanic, aphyric rhyolite, plagioclase porphyritic rhyolite, quartz porphyritic rhyolite, plagioclase-quartz porphyritic rhyolite, rhyolitic breccia, and quartzite stone materials present. A single indeterminate metavolcanic eared triangle point (Figure 4.3-271) was found in

	Ground Surface	31WA2085 Test Unit 2 North Profile
Zone 1	Key: — D	Pistinct Boundary
Zone 2	Centimeters	nexcavated
	Inches	5 10
Zone 1 – 10YR 4/4 Dark Yellowish Brown Sandy Loam (Plow Zone) Zone 2 – 2.5Y 6/4 Light Yellowish Brown Sand Mottled wit 10YR 5/6 Yellowish Brown Sand (Possible E-horizon)		

Figure 4.3-269: Site 31WA2085, Test Unit 2, Sketch of North Profile.



Figure 4.3-270: 31WA2085 Test Unit 2, Photograph of North Profile.



Figure 4.3-271: Indeterminate Eared Triangular Point from 31WA2085 (Acc.# 2017.0212.27).

Object	Zone/Level	Count	Percentage in Test Unit
Quartzite Decortication Flake	2/1	1	1.37%
Metavolcanic Interior Flake	2/1	1	1.37%
Quartz Interior Flake	2/1	6	8.22%
Quartz Shatter	2/1	2	2.74%
Metavolcanic Bifacial Thinning Flake	2/2	1	1.37%
Aphyric Rhyolite Interior Flake	2/2	1	1.37%
Metavolcanic Interior Flake	2/2	3	4.11%
Quartz Interior Flake	2/2	37	50.68%
Quartz Interior Flake	2/3	20	27.40%
Quartz Shatter	2/3	1	1.37%
Total		73	100.00%

Table 4.3-115: Summary of Artifacts Recovered 31WA2085 Test Unit 2 by Zone/Level.

Zone 2 of Shovel Test 9. It is not certain that this is a variant of the Yadkin Triangular eared variety described in Coe (1964:47). Shovel Tests 11 and 31 yielded three indeterminate Native American ceramic sherds (two of which contain very coarse sand temper). These items are summarized in Table 4.3-116.

Table 4.3-116: Summary of Artifacts Recovered from 31WA2085.

Object	Count
Indeterminate Native American Ceramic	3
Metavolcanic Indeterminate Eared Triangle Point	1
Quartzite Decortication Flake	2
Aphyric Rhyolite Bifacial Thinning Flake	2
Metavolcanic Bifacial Thinning Flake	6
Plagioclase Porphyritic Rhyolite Bifacial Thinning Flake	2
Quartz Bifacial Thinning Flake	1
Rhyolitic Breccia Bifacial Thinning Flake	1
Aphyric Rhyolite Interior Flake	13
Metavolcanic Interior Flake	41
Plagioclase Porphyritic Rhyolite Interior Flake	9
Plagioclase-Quartz Porphyritic Rhyolite Interior Flake	1
Quartz Interior Flake	167
Quartz Porphyritic Rhyolite Interior Flake	1
Rhyolitic Breccia Interior Flake	4
Metavolcanic Flake Fragment	2
Quartz Shatter	6
Total	262

RECOMMENDATIONS: Despite the plowing that has disturbed the upper deposits at this site; the majority of the artifacts were recovered from Zone 2 beneath the plow zone. The depositional context of this site is unclear since the landform does not appear to be an aggrading stream terrace or floodplain, and it may be that material has been moved downward through natural processes in the sandy soil. These processes might include bioturbation and graviturbation, as suggested by Petersen and Mohler (2002). Unfortunately, the complete point recovered from the site, as well as the several Native American ceramic sherds as located, are not specifically diagnostic. While this site possessed a higher artifact density than many others examined in the project area, it did not provide evidence for discrete datable contexts that would lend themselves to examination of significant research questions. As such, this site lacks the potential to provide additional information on precontact inhabitants of the Central Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, and D.

SITE NUMBER: 31WA2086

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Wagram-Troup sands, 0 to 4 percent slopes

SITE SIZE: 39 x 26 m (127 x 84 ft)

SELECTED ARTIFACTS: aphyric rhyolite bifacial thinning flake, metavolcanic interior flakes, quartz interior flake

COMMENTS: This lithic scatter was encountered during shovel testing in a secondary mixed forest situated on an upland flat in the northwest corner of Segment OO (Figures 4.3-272 and 4.3-273). Three positive shovel tests define the site. The artifacts recovered (n=5) derived from Zones 1 and 2 of these positive tests. Only one test, Shovel Test 1, contained cultural materials in both zones: Zone 1 of the test contained a metavolcanic interior flake and Zone 2 contained an aphyric rhyolite bifacial thinning flake. The artifacts located in Zone 1 of the other positive shovel tests include two interior metavolcanic flakes and a single quartz interior flake. The typical soil profile at the site contained three zones: Zone 1, a yellowish brown (10YR 5/4) sandy loam A-horizon approximately 25 cm in thickness; Zone 2, a light yellowish brown (10YR 6/4) sandy E-horizon approximately 15 cm in thickness; and Zone 3, a yellowish brown (10YR 5/6) sandy clay subsoil. The artifact located in Zone 2 at site was likely a result of bioturbation. **RECOMMENDATIONS:** Given the low artifact density, lack of diagnostic artifacts, and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Central Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2087

SITE TYPE: Native American Scatter: Middle Woodland

SOIL TYPE: Wagram-Troup sands, 0 to 4 percent slopes

SITE SIZE: 241 x 97 m (486 x 253 ft)

SELECTED ARTIFACTS: Native American cord-marked Yadkin series ceramic, Native American fabric-impressed ceramics (similar to Mount Pleasant series), Native American indeterminate ceramics, metavolcanic retouched flake, quartz decortication flake, aphyric rhyolite bifacial thinning flakes, metavolcanic bifacial thinning flakes, plagioclase porphyritic bifacial thinning flake, quartz bifacial thinning flake, aphyric rhyolite interior flakes, metavolcanic interior flakes, plagioclase-quartz



Figure 4.3-272: Map of Site 31WA2086 and 31WA2087. Base Mapping from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-273: View of Site 31WA2086, Looking Southeast.

porphyritic rhyolite interior flake, quartz interior flakes, quartz porphyritic rhyolite interior flake *COMMENTS:* The site was identified while shovel testing in a wooded area approximately 55 m east of 31WA2086 on the same large upland flat (See Figure 4.3-272). The site also descends partially southeast down the side slope towards a drainage. The site straddles a planted pine forest and a mixed secondary-growth forest (Figure 4.3-274). The typical soil profile at the site contained three soil zones, with a brown (10YR 4/3) sandy loam plow zone in the portion of the site in the planted pines, and an A-horizon in the area of the site in the secondary-growth forest. In both areas of the site, this, Zone 1, is approximately 25 cm in thickness. Zone 2, across the site, is generally a yellowish brown (10YR 5/6) sandy E-horizon approximately 60 cm in thickness. Zone 3 (lower subsoil) at the site is generally a yellowish brown (10YR 5/8) sandy clay. The portion of the site on the upland has extensive signs of disturbance at the surface including push piles, evidence of recent clear cutting and stump removal, and the presence of two-track roads.

The site assemblage (n=196) derives from shovel tests and test units. Out of the 100 shovel tests excavated a total of 30 recovered cultural items. The artifacts represented in the sample include 29 Native American ceramic sherds and 73 non-diagnostic lithic items. Many of these items were recovered from beneath the plow zone. A number of the ceramic sherds could not be assigned to a specific series due to their small size, the presence of an indeterminate surface treatment, or an atypical combination of temper and surface treatment with respect to an established series. Eighteen body sherds had granule-sized quartz temper in conjunction with fabric-impressed exteriors and smoothed interiors (Figures 4.3-275 and 4.3-276). These sherds have some qualities suggesting similarity to the Mount Pleasant series of the Northern Coastal Plain, which dates to the Middle Woodland period (A.D. 200-800; Ward and Davis 1999:203). A single Yadkin series cord-marked sherd was also recovered, which dates to the Middle Woodland period between approximately 500 B.C. and 800 A.D. (Coe 1964:27-32; Ward and Davis 1999:80-84). The possible Mount Pleasant sherds may have all come from the same vessel. Eight other sherds, untyped but similar except for the lack of smoothed interiors, possess crisscross cord marking and may be also represent a single vessel.

IN DEPTH EVALUATION: Three 1-x-1-m test units were excavated based on the moderate density of artifacts recovered from the site during shovel testing as well as the large site dimensions and a concentration of Native American ceramics located in two shovel tests. No features or intact buried deposits were encountered.

Test Unit 1 was excavated between Shovel Tests 5 and 15 because these two shovel tests yielded a total of 27 Native American ceramics sherds from Zone 2. Excavation of Test Unit 1 revealed a three-zone soil profile: Zone 1, a very dark grayish brown (10YR 3/2) sandy loam A-horizon 10 cm in thickness; Zone 2, a light yellowish brown (10YR 6/4) sandy E-horizon 80 cm in thickness; and Zone 3, a very pale brown (10YR 7/3) sand with slight clay subsoil. Test Unit 1 had no features and evidence of heavy bioturbation throughout (Figures 4.3-277 and 4.3-278).

This test unit yielded 36 artifacts, all of which derived from Zone 2 (Table 4.3-117). These items include interior and bifacial thinning flakes of quartz, metavolcanic, aphyric rhyolite, and plagioclase porphyritic rhyolite. There was also a single indeterminate Native American ceramic less than two cm in diameter. Zone 2, Level 4 of the unit yielded the most artifacts, but there is



Figure 4.3-274: View of Site 31WA2087, Looking East.



Figure 4.3-275: Indeterminate Cord Marked Body Sherd from 31WA2087 (Acc.# 2017.0214.09).



Figure 4.3-276: Indeterminate Fabric Impressed Body Sherds from 31WA2087 (Acc.# 2017.0124.05).



Figure 4.3-277: Site 31WA2087, Test Unit 1, Sketch of West Profile.



Figure 4.3-278: 31WA2087, Test Unit 1, Photograph of West Profile.

Object	Zone/Level	Count	Percentage in Test Unit
Plagioclase Porphyritic Rhyolite Interior Flake	2/1	1	2.78%
Indeterminate Native American Ceramic	2/2	1	2.78%
Metavolcanic Interior Flake	2/2	1	2.78%
Plagioclase Porphyritic Rhyolite Interior Flake	2/2	1	2.78%
Quartz Interior Flake	2/2	6	16.67%
Plagioclase Porphyritic Rhyolite Bifacial Thinning Flake	2/3	1	2.78%
Quartz Bifacial Thinning Flake	2/3	1	2.78%
Quartz Interior Flake	2/3	3	8.33%
Aphyric Rhyolite Interior Flake	2/4	1	2.78%
Metavolcanic Interior Flake	2/4	1	2.78%
Quartz Interior Flake	2/4	10	27.78%
Plagioclase Porphyritic Rhyolite Interior Flake	2/5	1	2.78%
Quartz Interior Flake	2/5	6	16.67%
Quartz Interior Flake	2/6	2	5.56%
Total		36	100.00%

Table 4.3-117: Summary of Artifacts Recovered from 31WA2087 Test Unit 1 by Zone/Level.

evidence to suggest that their presence in this location is a result of extensive bioturbation from roots and rodent activity.

Test Unit 2 was excavated between Shovel Tests 1 and 21 to investigate the densest concentration of lithic materials. The stratigraphy of the unit revealed two soil zones: Zone 1, a dark gray (10YR 4/1) sandy loam A-horizon 10 cm in thickness and Zone 2, a yellow (2.5Y 7/6) sandy E-horizon. The lower subsoil was not reached before two sterile levels (Figures 4.3-279 and 4.3-280). Bioturbation was present in all levels of the unit. This unit yielded only 10 metavolcanic interior flakes from Zone 2 of the test.

Test Unit 3 was excavated between Shovel Tests 53, 58, 59, and 85 to investigate the densest lithic concentration on top of the landform in the portion of the site in Segment PP in the northern half of the site. Excavation of the unit revealed a three-zone soil profile: Zone 1, a brown (10YR 5/3) sandy loam plow zone 18 cm in thickness; Zone 2, a light yellowish brown (10Y5 6/4) sandy E-horizon 44 cm in thickness; and Zone 3, a very pale brown (10YR 7/3) sand subsoil. Test Unit 3 had no features and evidence of heavy bioturbation throughout (Figures 4.3-281 and 4.3-282).

This test unit yielded 48 artifacts (Table 4.3-118). These items include seven indeterminate Native American ceramic sherds and retouched, bifacial thinning, and interior flakes of quartz, metavolcanic, aphyric rhyolite, quartz porphyritic rhyolite, and plagioclase porphyritic rhyolite stone. Twice as many artifacts came from Zone 2 as the plow zone. These items were in the E-horizon most likely because of the heavy bioturbation evidenced through the stratigraphy. Artifact density decreased with depth.



Figure 4.3-279: Site 31WA2087, Test Unit 2, Sketch of North Profile.



Figure 4.3-280: 31WA2087, Test Unit 2, Photograph of North Profile.
Zone 1	Ground Surface 31WA2087 Test Unit 3 East Profile
	Key: —— Distinct Boundary
	Unexcavated
Zone 2	
7. 2	Centimeters
	Inches 0 5 10
Zone 1 – 10YR 5/3 Brown Sandy Loam (Plow Zone) Zone 2 – 2.5Y 6/4 Pale Olive Sand (E-horizon) Zone 3 – 10YR 7/3 Very Pale Brown Sand (Subsoil)	

Figure 4.3-281: Site 31WA2087 Test Unit 3, Sketch of East Profile.



Figure 4.3-282: 31WA2087 Test Unit 3, Photograph of East Profile.

Object	Zone/Level	Count	Percentage in Test Unit
Metavolcanic Bifacial Thinning Flake	1/1	2	4.17%
Indeterminate Native American Ceramic	1/2	1	2.08%
Metavolcanic Retouched Flake	1/2	1	2.08%
Metavolcanic Bifacial Thinning Flake	1/2	2	4.17%
Aphyric Rhyolite Interior Flake	1/2	1	2.08%
Metavolcanic Interior Flake	1/2	1	2.08%
Quartz Interior Flake	1/2	1	2.08%
Quartz Porphyritic Rhyolite Interior Flake	1/2	1	2.08%
Indeterminate Native American Ceramic	2/1	6	12.50%
Metavolcanic Bifacial Thinning Flake	2/1	4	8.33%
Aphyric Rhyolite Interior Flake	2/1	1	2.08%
Metavolcanic Interior Flake	2/1	10	20.83%
Plagioclase Porphyritic Rhyolite Interior Flake	2/1	1	2.08%
Quartz Interior Flake	2/1	2	4.17%
Metavolcanic Bifacial Thinning Flake	2/3	3	6.25%
Metavolcanic Interior Flake	2/3	9	18.75%
Quartz Interior Flake	2/3	2	4.17%
Total		48	100.00%

Table 4.3-118: Summary of Artifacts Recovered from 31WA2087 Test Unit 3 by Zone/Level.

Table 4.3-119: Summary of Artifacts Recovered from 31WA2087.

Object		
Native American Ceramic, Similar to Mount Pleasant Series	18	
Native American Yadkin Series Ceramic	1	
Indeterminate Native American Ceramic	18	
Metavolcanic Retouched Flake	1	
Quartz Decortication Flake	1	
Aphyric Rhyolite Bifacial Thinning Flake	2	
Metavolcanic Bifacial Thinning Flake	19	
Plagioclase Porphyritic Rhyolite Bifacial Thinning Flake	1	
Quartz Bifacial Thinning Flake	1	
Aphyric Rhyolite Interior Flake	10	
Metavolcanic Interior Flake	69	
Plagioclase Porphyritic Rhyolite Interior Flake	4	
Plagioclase-Quartz Porphyritic Rhyolite Interior Flake	1	
Quartz Interior Flake		
Quartz Porphyritic Rhyolite Interior Flake		
Total	196	

The rest of the artifact assemblage from the shovel tests includes a decortication flake, bifacial thinning flakes, and interior flakes with aphyric rhyolite, metavolcanic, and quartz represented (with metavolcanic interior flakes the most common) (Table 4.3-119).

It is interesting that the only unit with artifacts in Zone 1 is also the only one with evidence of plowing, Test Unit 3. Test Units 1 and 2 are on the gentle slope that descends to the southeast, and erosional processes may have removed a portion of the A-horizon during times when the landform was logged or cleared in the past.

RECOMMENDATIONS: This site has limited diagnostic material suggesting the possibility of a single component or a limited period of reoccupation and also appears interesting with respect to the possibility of evidence for interaction resulting in the possible presence of a ceramic tradition from the Coastal Plain region. However, although the site yielded Native American ceramics as well as lithic material from beneath the plow zone, the overall density of artifacts from any context was very low and may reflect bioturbation rather than cultural deposition. Therefore, reliable contexts do not appear to be present, and the site appears to lack the potential to provide additional information on significant research questions concerning Middle Woodland inhabitants of the Central Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

Segment PP (STIP R-2829)	
Length	902.67 m (2,961.53 ft)
Area	37.83 ha (93.50 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	12.71 ha (31.41 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	14.66 ha (36.23 acres)
Total Area Shovel Tested with Judgmental Test Placement	.92 ha (2.28 acres)
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	9.54 ha (23.58 acres)
Total # of Shovel Tests	143
Total # Sites Documented	2
Total # Isolated Finds Documented	2

Table 4.3-120: Segment PP Survey Summary.

Segment PP, which is approximately 944.88 m (3,100.01 ft) long, begins at a trail that extends off of Scenic Woods Drive, and continues north to Poole Road (see Figure 4.3-1e). The segment extends east and west along Poole Road for a total of 1,476 m (4,842 ft). Fifty percent of Segment PP is covered by Appling sandy loam. Wagram-Troup sands, Wehadkee and Bibb

soils, and lesser amounts of other soils are also present. The most extensive soil unit in the segment is Appling sandy loam, 6 to 10 percent slopes, moderately eroded. Appling soils are classified as well-drained, and Wagram-Troup sands are classified as somewhat excessively drained, and Wehadkee and Bibb soils are classified as poorly drained. At the time of the survey, the ground cover in Segment PP consisted of woods, two mobile home parks, and residential and commercial lots. Almost the entire portion of the segment along Poole Road was coded as moderately eroded or poorly drained. Portions of the interior of the segment were also recorded as moderately eroded, poorly drained, or slope. The terrain in the segment is relatively rugged. Artificial ponds cover approximately 0.35 ha (0.85 acres) of the segment area. Ground surface visibility was low across the segment. Survey in Segment PP consisted of shovel testing at 30-m (98-ft) intervals, and visual inspection at 30-m (98-ft) intervals in areas that were coded as moderately eroded, slope, or poorly drained. Survey resulted in the identification of three archaeological sites and two isolated finds in Segment PP, although one of these sites, 31WA2087, is also recorded in Segment OO and overlaps the segment boundary near Scenic Woods Drive (see Figure 4.3-2e).

SITE NUMBER: 31WA2088

SITE TYPE: Native American lithic scatter: Woodland

SOIL TYPE: Louisburg loamy sand, 10 to 15 percent slopes

SITE SIZE: 46 x 23 m (150 x 79 ft)

SELECTED ARTIFACTS: indeterminate Native American ceramics, aphyric rhyolite retouched flake, metavolcanic bifacial thinning flake, metavolcanic interior flake, quartz interior flake

COMMENTS: This Native American scatter was recovered while shovel testing in a secondary mixed forest on a ridge toe near the center of Segment PP (Figures 4.3-283 and 4.3-284). Four positive shovel tests define this site and the artifacts recovered (n=15) were located in Zones 1, 2, and 3 of these tests. Only one positive test, Shovel Test 10, contained artifacts in more than one zone. Zone 2 of Shovel Test 10 contained a coarse-sand-tempered ceramic body sherd (Figure 4.3-285) and Zone 3 contained an interior quartz flake. Shovel Test 10 is also unique in that it contained four soil zones: Zone 1, a dark grayish brown (10YR 4/2) sandy loam A-horizon 9 cm in thickness; Zone 2, a brown (10YR 5/3) sandy loam transition 11 cm in thickness; Zone 3, a light yellowish brown (10YR 6/4) sand E-horizon 20 cm in thickness; and Zone 4, a yellowish brown (10YR 5/6) yellowish brown sandy clay subsoil. All other shovel tests profiles at the site possessed three zones: typically, Zone 1 was a brown (10YR 4/3) sandy loam A-horizon, approximately 10 cm in thickness; Zone 2 was a light yellowish brown (10YR 6/4) sand Ehorizon, approximately 50 cm in thickness; and Zone 3 was a yellow (10YR 8/6) sandy clay subsoil. Zone 2 of Shovel Test 1 contained a net-impressed Native American ceramic with granule-sized quartz temper (some angular). It was most likely redeposited in Zone 2 from Zone 1 through the process of bioturbation.

RECOMMENDATIONS: Given the low artifact density, lack of diagnostic artifacts, and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Central Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.



Figure 4.3-283: Map of Site 31WA2088. Base Mapping from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-284: View of Site 31WA2088, Looking Southeast.



Figure 4.3-285: Indeterminate Net Impressed Body Sherd from 31WA2088 (Acc.# 2017.0125.01).

SITE NUMBER: 31WA2089

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Appling sandy loam, 2 to 6 percent slopes

SITE SIZE: 37 x 47 m (122 x 154 ft)

SELECTED ARTIFACTS: aphyric rhyolite bifacial thinning flake, plagioclase porphyritic rhyolite bifacial thinning flake, aphyric interior flake, metavolcanic interior flakes, quartz interior flakes, quartz porphyritic rhyolite interior flake, quartzite interior flake

COMMENTS: This lithic scatter was encountered while shovel testing in a mature forest located on a gentle side slope along the northern edge of Segment PP (Figures 4.3-286 and 4.3-287). The artifacts recovered (n=31) are summarized in Table 4.3-121. These materials derived from Zone 1 and Zone 2 of five positive shovel tests; however, none of the tests were positive in both of the zones. The artifacts located in Zone 2 include, an aphyric rhyolite bifacial thinning flake, a plagioclase porphyritic rhyolite bifacial thinning flake, a quartz porphyritic rhyolite interior flake, eight metavolcanic interior flakes, and seven quartz interior flakes. The artifacts found in Zone 1 include, an aphyric rhyolite interior flake, four metavolcanic interior flakes, seven quartz interior flakes, and a quartzite interior flake. Typically, soil profiles at the site contained three zones: Zone 1, a brown (10YR 4/3) sandy loam A-horizon approximately 20 cm in thickness; Zone 2, an olive yellow (2.5Y 6/6) sand E-horizon approximately 50 cm in thickness; Zone 3, a yellowish brown (10YR 5/8) sandy clay subsoil. The location of the artifacts recovered from Zone 2 at the site was likely the result of bioturbation.

Object	Count
Aphyric Rhyolite Bifacial Thinning Flake	1
Plagioclase Porphyritic Rhyolite Bifacial Thinning Flake	1
Aphyric Rhyolite Interior Flake	1
Metavolcanic Interior Flake	12
Quartz Interior Flake	14
Quartz Porphyritic Rhyolite Interior Flake	1
Quartzite Interior Flake	1
Total	31

Table 4.3-121: Summary of Artifacts Recovered from 31WA2089.

RECOMMENDATIONS: Given the low artifact density, lack of diagnostic artifacts, and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Central Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2090

SITE TYPE: Native American isolated find: Woodland

SOIL TYPE: Appling sandy loam, 2 to 6 percent slopes

SITE SIZE: 17 x 15 m (57 x 50 ft)

SELECTED ARTIFACTS: indeterminate Native American ceramic (plain exterior with coarse sand temper), metavolcanic interior flake

COMMENTS: This isolated find was recovered during shovel testing within a wooded area on a gentle side slope approximately 90 m northwest of 31WA2089. An indeterminate Native



Figure 4.3-286: Map of Site 31WA2089. Base Mapping from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-287: View of Site 31WA2089, Looking West.

American ceramic fragment generally dating to the Woodland period and a metavolcanic interior flake derived from Zone 1 of a single shovel test. Radial shovel tests, excavated in four directions at 15-m intervals, yielded no additional material.

RECOMMENDATIONS: These artifacts lack sufficient context for further interpretation and is unlikely to yield additional information on Native American settlement of the North Carolina Piedmont. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2091

SITE TYPE: Native American isolated find: unattributed

SOIL TYPE: Wagram-Troup sands, 0 to 4 percent slopes

SITE SIZE: 17 x 15 m (57 x 50 ft)

SELECTED ARTIFACTS: metavolcanic interior flakes, quartz interior flake

COMMENTS: This isolated find was recovered while shovel testing in a mature forest located approximately 84 m southwest of 31WA2089 on an upland flat along the northern edge of Segment PP. The artifacts recovered (n=3) derived from Zone 2 of one positive shovel test. These materials include two metavolcanic interior flakes and a quartz interior flake. The presence of cultural material in Zone 2 of the positive test is likely an effect of bioturbation. Radial shovel tests, excavated in four directions at 15-m intervals, were negative.

RECOMMENDATIONS: These artifacts lack sufficient context for further interpretation and their location is unlikely to yield additional information on Native American settlement of the Piedmont of North Carolina. This isolated find is not eligible for the NRHP under Criteria A, B, C, or D.

Segment QQ (STIP R-2829)	
Length	573.57 m (1,881.79 ft)
Area	27.4 ha (67.72 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	21.28 ha (52.59 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	
Total Area with Pedestrian Transects (10-m/39-ft Interval)	.3 ha (.74 acres)
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	5.82 ha (14.39 acres)
Total # of Shovel Tests	11
Total # Sites Documented	
Total # Isolated Finds Documented	
Total # Cemeteries Recorded	1

Table 4.3-122: Segment QQ Survey Summary.

Segment QQ is 553.17 m (1,814.85 ft) long and begins at Poole Road and ends at Lodge Drive to the northeast (see Figure 4.3-1e). The segment extends east and west along Poole Road for a total of 1,476 m (4,842 ft). Soils in Segment QQ are dominated by Appling sandy loam. Vance sandy loam and lesser amounts of other soils are also present. The most extensive soil unit in the Segment is Appling sandy loam, 6 to 10 percent slopes, moderately eroded. Appling and Vance soils are classified as well-drained. At the time of the survey, ground cover in Segment QQ consisted of woods, two mobile home parks, recent housing developments, other residential and commercial lots, and a pair of rugby fields. A large artificial pond is located in the middle of the segment and encompasses approximately 1.38 ha (3.41 acres). The majority of Segment QQ was coded as moderately eroded or poorly drained/wet. Less than 10 percent of the segment was uncoded and portions of this remaining area, such as in the rugby fields or along Poole Road, were found to be disturbed. Therefore, very little shovel testing was undertaken in the segment. Survey consisted of visual inspection at 30-m (98-ft) intervals in areas that were coded as moderately eroded or poorly drained. Survey did not result in the identification of new archaeological sites or isolated finds, but did result in the documentation of one cemetery (see Figure 4.3-2e). The cemetery is located on the north side of Poole Road and is within the eastward extension of Segment QQ along Poole Road.

SITE NUMBER: 31WA2095**

SITE TYPE: Cemetery: ca. 1921-1928

SOIL TYPE: Vance sandy loam, 2 to 6 percent slopes, moderately eroded

SITE SIZE: 47 x 63 m

DATE: ca. 1921-1928

COMMENTS: The site is situated within a rectangular patch of oak trees that are positioned on an upland just a few meters north of Poole Road and 83 m to the west of Oaks Planation Drive (Figures 4.3-288 and 4.3-289). The majority of interments are unmarked and were located by the presence of visible depressions on the forest floor. The cemetery was established by 1921, as the earliest death recorded on a grave maker is that of Samuel McCullers in 1921. The last recorded death is Dolly Hinton in 1928 (Figure 4.3-290). This short range for burials, 1921-1928, is likely not reliable since, as a consequence of damage and erosion, legible dates could not be gleaned from most of the dressed gravestones found at the site. The gravestones found at the site are isolated to the southeast corner. Interments marked with metal indicators (likely aluminum) are also present at the site in a small area in the southwest corner. The metal markers too are eroded to read and no longer exhibit temporal information.

The cemetery lacks a fence or wall but rather is positioned on a small table-like rise that defines it from the surrounding landscape. As a result, it was not difficult to determine the extent of potential unmarked graves. Three corners of the cemetery (the southwest, southeast, and northeast) are flanked with large, old-growth oaks. The northwest corner of the site contains relatively recently (within the last few years) axe-felled tree stumps. The neighboring property, immediately adjacent to the cut trees, appears to have once contained a residence but now clearly serves as an illegal dump. During survey in this property on February 21, 2017, remnants of recent campfires and informal human habitations were observed. It is possible that the trees cut from the cemetery were fated for one of the campfires at the adjacent property.



Figure 4.3-288: Map of Site 31WA2095.



Figure 4.3-289: View of Site 31WA2095**, Looking East.



Figure 4.3-290: View of Dolly Hinton Headstone 31WA2095**, Looking East.

A small, somewhat-rounded, mound is located just south of the center of the site. It stands less than three-fourths of a meter high, with a relative circumference of approximately 2.5 m. Soil exposed on the surface of the mound is a compact, sandy clay loam that ranges in color from light yellowish brown (10YR 6/4) to brownish yellow (10YR 6/6).

The surnames McCullers and Hinton, found on headstones at the site, were relatively prolific in Wake County during the nineteenth century (Babits and Howard 2004; Lewis 2012:133, 2017; United States National Archives n.d.). The early Hintons and McCullers were slave-owning planters who settled this portion of the county, particularly the land immediately surrounding the cemetery, in the early eighteenth century (Lally and Johnson 1993:16-18; McCullers 1826). The Hintons built several structures within a relatively short distance of the site, such as Panther Rock House (circa 1743), the Oaks Plantation (circa 1790), and Midway Plantation (1848) (Lally and Johnson 1993:17; Murray 1983:27n). Oaks Plantation House still stands and is less than 750 m north/northeast of the cemetery. A small, walled, family cemetery is found on the property of the Oaks.

Individual dressed gravestones may be hidden in the leaf litter that covers the site. Some broken pieces of dressed stone without inscriptions—and possibly in secondary context—were observed during survey, as well as several unmodified fieldstones that may have served as grave markers. The presence of these supports the idea of a broader date range for the cemetery than 1921-1928, although there is insufficient information to make assumptions or draw conclusions with respect to the date range possibly extending into the previous century.

Dolly Hinton's marker is made of granite and is adorned with a relief carving of ivy (see Figure 4.3-290). Adjacent to it is a similar but broken gravestone. It contains the same inscription as the bottom of Dolly Hinton's gravestone but now lacks a name. Samuel McCullers' headstone and footstone are both carved marble. The site also contains a small, uninscribed, rectangular, limestone monument. This stone is quite a different style than the others present in the cemetery.

RECOMMENDATIONS: To be eligible for the NRHP, a cemetery must retain integrity and be associated with significant historic events or trends (Criterion A) or the lives of significant persons (Criterion B), or possess significant design or construction value (Criterion C) or valuable information potential (Criterion D). In addition, cemeteries must meet specific Criteria Consideration requirements. Criteria Consideration D most often applies, which stipulates that a cemetery is eligible "if it derives its primary significance from graves of persons of transcendent importance, from age, from distinctive design features, or from association with historic events." In other words, within the appropriate historic context cemeteries must represent more than their general commemorative purpose (Potter and Boland 1992:9-17).

As discussed above, this unnamed cemetery is the burial place of at least one member of the McCullers family during the early twentieth century, and at least one member of the Hinton family. Research did not indicate, however, that the cemetery, alone, represents an important aspect of the area's history or can be considered prominent, "transcendent" local historical figures (Potter and Boland 1992:16). It is simply, likely, a burial place for a family (the Hinton's) that occupied much of the surrounding area. The McCullers family has a history of farming the southwestern portion of the county, many of whom were involved with military

service. As such, the cemetery is recommended not eligible for the NRHP under Criteria A and B.

Under Criterion C, the cemetery does not contain grave markers that could be considered "high style" or the work of a master. Although it is situated on a higher landform than the surrounding area, the setting of the cemetery is informal, without a surviving boundary fence or walls. It is now full of medium-sized oak trees and its overall setting cannot be said to convey the most important periods of use of the cemetery. The cemetery is also not distinctive for its size or its two known interments and unknown number of unmarked graves. There are numerous small family cemeteries in Wake County (Cemetery Census 2017; Find a Grave 2017). Without measurable design or construction value, the cemetery is recommended not eligible under Criterion C.

Within the parameters of Criterion D, no evidence was encountered during survey of the cemetery, or through subsequent research relating to the cemetery, to suggest that the cemetery would yield important information from physical evidence of study of human remains. The cemetery is recommended not eligible to the NRHP under Criterion D.

Segment RR (STIP R-2829)	
Length	910.37 m (2,986.77 ft)
Area	92.27 ha (228.02 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	18.97 ha (46.88 acres)
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	37.75 ha (93.28 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	.96 ha (2.37 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	6.78 ha (16.75 acres)
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	4.37 ha (10.81 acres)
Total Area Shovel Tested with Judgmental Test Placement	3.38 ha (8.34 acres)
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	.39 ha (.98 acres)
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	19.67 ha (48.61 acres)
Total # of Shovel Tests	169
Total # Sites Documented	5
Total # Isolated Finds Documented	

Table 4.3-123: Segment RR Survey Summary.

Segment RR, which is approximately 914.04 m (2,998.81 ft) long, begins at Lodge Drive and extends northeast to US 264 (see Figure 4.3-1e). The segment extends east and west along US 264 for a total of approximately 2,930 m (9,613 ft). Seven previously recorded sites, 31WA493, 31WA1335, 31WA1347, 31WA1348, 31WA1349, 31WA1350, and 31WA1368, are located within Segment RR. These are all located in proximity to US 264 and most are within the

eastern extension of the segment along the highway, with only one site located west of the main project corridor and none located within the corridor. Soil types found within Segment RR predominantly include Appling sandy loam, Vance sandy loam, and Durham loamy sands. Other soils are also present in the segment, but to a lesser degree. The most extensive soil unit in the segment is Appling sandy loam, 6 to 10 percent slopes, moderately eroded. Appling, Vance, and Durham soils are all classified as well-drained. At the time of the survey, ground cover in Segment RR consisted of woods, wetlands, agricultural fields, a mobile home park, residential lots, and highway ramps. Over half of Segment RR was coded as moderately eroded and extensive areas were coded as wet or poorly drained. Multiple drainages cut across the segment. Survey in Segment RR consisted of visual inspection at 30-m (98-ft) intervals in areas that were coded as moderately eroded or poorly drained, surface survey at 10-m (33-ft) intervals in agricultural fields were ground surface visibility allowed, and shovel testing was conducted at 30-m (98-ft) intervals elsewhere. Judgmental shovel tests were also excavated in areas of favorable surface visibility if artifacts were recorded on the surface of the ground during pedestrian survey. In Segment RR, survey resulted in the identification of three archaeological sites and additional material associated with previously recorded site 31WA1348 (see Figure 4.3-2e). Judgmental shovel tests were excavated within the previously recorded boundaries of site 31WA493 at intervals of no greater than 30 m (98 ft), with only one resulting in additional material.

SITE NUMBER: 31WA2092

SITE TYPE: Native American lithic scatter: unattributed *SOIL TYPE:* Durham loamy sand, 6 to 10 percent slopes

SITE SIZE: 54 x 20 m (184 x 99 ft)

SELECTED ARTIFACTS: metavolcanic bifacial thinning flake, aphyric rhyolite interior flakes, metavolcanic interior flake, plagioclase porphyritic rhyolite interior flake **COMMENTS:** The site was recorded while shovel testing in a secondary mixed forest situated on a gentle side slope of a ridge toe located in the western portion of Segment RR (Figures 4.3-291 and 4.3-292). A portion of the site exhibits disturbance from a somewhat recent clear-cutting episode that likely occurred in the last few years. The artifacts recovered from the site (n=6) were located in four positive shovel tests. Most of these items derived from Zone 2 of two positive shovel tests: Shovel Test 2 yield a single plagioclase porphyritic rhyolite interior flake, and Shovel Test 13 returned three aphyric rhyolite interior flakes. A metavolcanic bifacial thinning flake and a metavolcanic interior flake derived from Zone 1 of Shovel Tests 12 and 7, respectively. The typical soil profile of the site contained three zones: Zone 1, a dark yellowish brown (10YR 4/4) sandy loam A-horizon that was approximately 17 cm in thickness; Zone 2, a light yellowish brown (10YR 5/6) sandy E-horizon approximately 15 to 40 cm in thickness; Zone 3, a brownish yellow (10YR 5/8) sandy clay subsoil. The presence of cultural materials recovered from Zone 2 at the site is a result of bioturbation.

RECOMMENDATIONS: Given the low artifact density, lack of diagnostic artifacts, and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Central Piedmont region of North Carolina. This site is recommended not eligible for the NRHP under Criteria A, B, C, or D.



Figure 4.3-291: Map of Site 31WA2092. Base Mapping from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-292: View of Site 31WA2092, Looking South.

SITE NUMBER: 31WA2093

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Vance sandy loam, 2 to 6 percent slopes, moderately eroded

SITE SIZE: 72 x 26 m (236 x 85 ft)

SELECTED ARTIFACTS: metavolcanic bifacial thinning flake, metavolcanic interior flake, quartz interior flakes, quartz shatter

COMMENTS: This small lithic scatter was recorded during the visual surface assessment and judgmental shovel testing of a fallow field situated approximately 170 m southeast of 31WA2092 (Figures 4.3-293 and 4.3-294). The cultural materials recovered from the site (n=7) were primarily recovered on the ground surface. This surface collection includes a metavolcanic bifacial thinning flake, a metavolcanic interior flake, and three quartz interior flakes. Two pieces of quartz shatter were located in Zone 3 of Judgmental Shovel Test 1. The soil profile of this positive test contained four zones: Zone 1, a reddish yellow (7.5YR 6/6) sandy loam plow zone 26 cm in thickness; Zone 2, a reddish yellow (7.5YR 7/6) sandy loam transition 14 cm in thickness; Zone 3, a yellowish brown (10YR 5/6) sandy E-horizon 15 cm in thickness; and Zone 4, a yellowish brown (10YR 6/6) sandy clay subsoil. The two pieces of quartz shatter in Zone 3 could have resulted from bioturbation.

RECOMMENDATIONS: Given the low artifact density and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Central Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA2094

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Warne fine sandy loam, 0 to 2 percent slopes, occasionally flooded *SITE SIZE:* 52 x 23 m (172 x 74 ft)

SELECTED ARTIFACTS: metavolcanic bifacial thinning flakes, aphyric rhyolite interior flake, metavolcanic interior flakes, quartz interior flakes

COMMENTS: The site was recorded during shovel testing in a planted pine forest situated on a ridge toe immediately above a stream terrace adjacent a robust wetland on the eastern edge of Segment RR (Figures 4.3-295 and 4.3-296). The artifacts recovered (n=10) included two metavolcanic bifacial thinning flakes, five quartz interior flakes, two metavolcanic interior flakes, and an aphyric rhyolite interior flake. These lithic materials derive from five positive shovel tests; with all but two of the artifacts located in Zone 1 of the respective tests. The two exceptions (two quartz interior flakes) were located in the interface between Zone 1 and Zone 2 of Shovel Test 8. The typical soil profile at the site contained three zones: Zone 1, a dark yellowish brown (10YR 4/4) sandy loam A-horizon approximately 15 cm in thickness; Zone 2, a light yellowish brown (10YR 6/4) sandy E-horizon 10 to 30 cm in thickness; and Zone 3, a yellowish brown (10YR 5/8) sandy clay subsoil.

RECOMMENDATIONS: Given the low artifact density, lack of diagnostic artifacts, and the absence of clear evidence for intact subsurface deposits, this site lacks the potential to provide additional information on Native American inhabitants of the Central Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D. Figure 4.3-293 site map 31wa2093



Figure 4.3-293: Map of Site 31WA2093. Base Mapping from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-294: View of Site 31WA2093, Looking South.



Figure 4.3-295: Map of Site 31WA2094. Base Mapping from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-296: View of Site 31WA2094, Looking South.

SITE NUMBER: 31WA1348

SITE TYPE: Native American lithic scatter: unattributed

SOIL TYPE: Appling sandy loam, 2 to 6 percent slopes

SITE SIZE: 162 x 81 m (531 x 266 ft)

SELECTED ARTIFACTS: aphyric rhyolite bifacial thinning flake, metavolcanic interior flakes, quartz interior flakes, aphyric rhyolite flake fragment

COMMENTS: This previously recorded site was reevaluated during the project survey due to the encountering of material in an adjacent survey area and the need to expand its boundary. The site boundary straddles an agricultural field and a planted pine forest and is situated on an upland flat in the eastern extension of Segment RR (Figures 4.3-297 and 4.3-298). Surface visibility was favorable during reexamination, and the boundaries of the previously recorded portion of the site were relocated. This boundary was expanded to the east during systematic shovel testing and visual assessment of the area. The field margin, located between the original site boundary and the planted pines to the east, yielded a small surface collection of lithic materials. These artifacts include an aphyric rhyolite bifacial thinning flake, two metavolcanic interior flakes, two quartz interior flakes, and an aphyric rhyolite flake fragment. A positive shovel test, excavated in the pines, yielded a three-zone soil profile: Zone 1, a yellowish brown (10YR 5/4) sandy loam approximately 20 cm in thickness; Zone 2, a yellow (2.5Y 7/6) sandy E-horizon approximately 20 cm in thickness; and Zone 3, a yellowish brown (10YR 5/8) sandy clay subsoil.

RECOMMENDATIONS: This site was previously recommended as not eligible for the NRHP (Abbot and Sanborn 1997), and while the results of this survey expanded the boundary of the site to the east, it did not add significantly to the material assemblage or to the context to provide additional information on Native American inhabitants of the Central Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

SITE NUMBER: 31WA493&493**

SITE TYPE: Native American scatter: unattributed; Historic isolated find: unattributed *SOIL TYPE:* Appling sandy loam, 2 to 6 percent slopes, eroded

SITE SIZE: 126 x 60 m (413 x 197 ft)

SELECTED ARTIFACTS: aphyric rhyolite interior flake, iron wire nail, bone fragments **COMMENTS:** This previously recorded but unassessed site was relocated in a former residential lawn situated within an upland flat. The site is located just north of the intersection of Faison Ridge Lane and Hodge Road in the western extension of Segment RR (Figures 4.3-299 and 4.3-300). This area was judgmentally shovel tested, and four artifacts were recovered from the site. Two positive shovel tests yielded cultural materials in Zone 1: an aphyric rhyolite interior flake, two indeterminate bone fragments, and an iron wire nail. The soil profile for Judgmental Shovel Test 2, which contained the bone fragments and the nail, consisted of three zones: Zone 1, a dark yellowish brown (10YR 3/4) sandy loam A-horizon 11 cm in thickness; Zone 2, a dark yellowish brown (10YR 4/6) sand E-horizon 16 cm in thickness; and Zone 3, a strong brown (7.5YR 5/8) sandy clay subsoil. The soil profile of Judgmental Shovel Test 5, which contained the piece of lithic debitage, also consisted of three zones: Zone 1, a dark yellowish brown (10YR 4/6) sand 2000 Site of three zones: Zone 1, a dark yellowish brown (10YR 4/6) sand E-horizon 16 cm in thickness; and Zone 3, a strong brown (7.5YR 5/8) sandy clay subsoil. The soil profile of Judgmental Shovel Test 5, which contained the piece of lithic debitage, also consisted of three zones: Zone 1, a dark yellowish brown (10YR 4/4) sandy loam A-horizon 12 cm in thickness; Zone 2, a light yellowish brown (10YR 6/4) sandy E-horizon 18 cm in thickness; and Zone 3, a yellow (10YR 7/8) sandy clay subsoil. In addition to being situated adjacent to US 264, the site area exhibited other



Figure 4.3-297: Map of Site 31WA1348. Base Mapping from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-298: View of Site 31WA1348, Looking West.



Figure 4.3-299: Map of Site 31WA493. Base Mapping from ArcGIS Image Service (2017a), and USGS National Geospatial Program (2017).



Figure 4.3-300: View of Site 31WA493, Looking Southwest.

disturbances, such as erosional gullies, somewhat recent demolition, graded areas, paved areas, and buried utilities.

RECOMMENDATIONS: Given the low artifact density, lack of diagnostic artifacts, and abundant evidence of subsurface disturbances, this site lacks the potential to provide additional information on Native American inhabitants of the Central Piedmont region of North Carolina. This site is recommended as not eligible for the NRHP under Criteria A, B, C, or D.

Segment SS (STIP R-2829)	
Length	1060.54 m (3,479.47 ft)
Area	41.1 ha (101.55 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	2.99 ha (7.38 acres)
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	29.74 ha (73.49 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	
Total Area with Pedestrian Transects (10-m/39-ft Interval)	.57 ha (1.41 acres)
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	3.29 ha (8.12 acres)
Total Area Shovel Tested with Judgmental Test Placement	1.23 ha (3.04 acres)
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	3.28 ha (8.11 acres)
Total # of Shovel Tests	50
Total # Sites Documented	
Total # Isolated Finds Documented	

Table 4.3-124: Segment SS Survey Summary.

Together with Segment TT, Segment SS represents the eastern terminus of the project (see Figure 4.3-1e). Segment SS is located northeast of the junction of US 264 and the eastern end of I-540. The segment extends east along US 264 from I-540 for 2,930 m (9,613 ft), and north along I-540 from US 264 for 1060.54 m (3,479.47 ft). Five previously recorded archaeological sites intersect Segment SS. These are 31WA1335, 31WA1347, 31WA1351, and 31WA1368, located near US 264, and 31WA1352, which overlaps the northern end of the segment. No evidence of these sites were relocated. Over 75 percent of the area in Segment SS is covered by Appling sandy loam. The most extensive soil unit in the Segment is Appling sandy loam, Appling sandy loam, 2 to 6 percent slopes, moderately eroded. Other soils present in the segment include Vance sandy loam and Wehadkee and Bibb soils. Appling and Vance soils are classified as well-drained and Wehadkee and Bibb soils are classified as poorly drained. At the time of the survey, ground cover in Segment SS consisted of woods, agricultural fields, open areas, highway ramps, and residential lots. The landscape has been altered by the construction of I-540 and US 264, and a significant portion of the segment has been disturbed by these highways and the junction between them. Old Faison Farm Road and a utility corridor both cut across the segment. Formerly, Clifton Road also passes through the segment, but now dead-ends at US

264. Over 70 percent of Segment SS was coded as moderately eroded. Wet and poorly drained areas are also present in the segment. Ground surface visibility in the agricultural fields was 80 percent and survey in the fields consisted of surface survey at 10-m (33-ft) intervals, where visibility allowed. Ground surface visibility was low across the rest of the segment. Survey across the remainder of Segment SS consisted of visual inspection at 30-m (98-ft) intervals in places coded as moderately eroded or poorly drained, and shovel testing at 30-m (98-ft) intervals in other undisturbed locations. Areas directly around houses were avoided because of the likelihood for buried utilities and disturbance. No new archaeological resources were recorded in Segment SS (see Figure 4.3-2e).

Segment TT (STIP R-2829)	
Length	865.87 m (2,840.77 ft)
Area	46.52 ha (114.96 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	9.12 ha (22.53 acres)
Eroded Soils	
Total Area with Pedestrian Reconnaissance Only	27.81 ha (68.73 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	5.97 ha (14.75 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	
Access Denied	
Non-Eroded Soils	
Total Area Shovel Tested at 30-m (98-ft) Interval	
Total Area Shovel Tested with Judgmental Test Placement	
Total Area Shovel Tested at Expanded Interval	
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	
Access Denied or Horse Pasture Not Surveyed	
Total Area Disturbed / Sloped / Low and Wet	3.62 ha (8.95 acres)
Total # of Shovel Tests	20
Total # Sites Documented	
Total # Isolated Finds Documented	

Table 4.3-125: Segment TT Survey Summary.

Together with Segment SS, Segment TT represents the eastern terminus of the project (see Figure 4.3-1e). Segment TT is located northwest of the junction of US 264 and the eastern end of I-540. The segment extends west along US 264 from I-540 for 1,228 m (4,028 ft), and north along I-540 from US 264 for 865.87 m (2,840.77 ft). Soils in Segment TT are dominated by Appling sandy loam. Worsham sandy loam and lesser amounts of other soils are also present. The most extensive soil unit in the Segment is Appling sandy loam, 2 to 6 percent slopes, moderately eroded. Appling soils are classified as well-drained and Worsham soils are classified as poorly drained. At the time of the survey, ground cover in Segment TT consisted of woods, open areas, highway ramps, and residential lots. A significant portion of the segment is disturbed by the junction of I-540 and US 264. Old Faison Farm Road and a utility corridor also pass through the segment. The landscape has been altered by the construction of I-540 and US 264. Five artificial ponds once intersected Segment TT, but these are largely gone due to highway construction. Over half of Segment TT was coded as moderately eroded. Areas in

Segment TT that were coded as eroded, poorly drained, or wet were subject to visual inspection at 30-m (98-ft) intervals. The remainder of the segment was shovel tested at 30-m (98-ft) intervals, where not visibly disturbed. Areas directly around houses and commercial buildings were avoided because of the likelihood for buried utilities and disturbance. No archaeological resources were recorded in Segment TT (see Figure 4.3-2e).

5.0 SUMMARY AND DISCUSSION

5.1 OVERVIEW AND ANALYSIS OF SURVEY AND EVALUATION RESULTS

5.1.1 General Summary and Review of Methodology

The archaeological survey and evaluation for the Preferred Alternative for the Complete 540 Triangle Expressway Southeast Extension (NC 540) gave full consideration to the approximately 2,304.09 ha (5,693.52 acres) comprising the APE. Of this total acreage, approximately 1,195.85 ha (2,955.01 acres) of soils mapped as uneroded based on USDA/NRCS data were targeted for intensive survey. The intensive investigations used a combination of pedestrian surface survey, subsurface shovel testing, and test unit excavation unless areas were found to be disturbed, extremely sloped, or low and wet. Table 5.1-1 provides a summary of survey conditions and strategies for the APE. Of the total area excluding previously surveyed areas, 972.99 ha (2,404.32 acres) (42 percent of the APE) have USDA/NRCS mapping showing moderately to severely eroded soils. These eroded soils were walked at 30-m intervals to locate above-ground features or other evidence of sites, cemeteries, or isolated areas of potentially uneroded soils on landforms that would normally have high potential for archaeological sites. Supplemental shovel testing and systematic pedestrian surface survey (10-m intervals) was conducted on approximately 60.99 ha (150.71 acres) of eroded soils. A total of 670.69 ha (1,664.13 acres) of the uneroded soils (29 percent or the overall APE) were either disturbed by modern activities, possessed slope of greater than 15 percent gradient, or were located in low-lying wet areas and were not intensively tested but were visually inspected. A total of 135.25 ha (334.31 acres) in the total APE (6 percent) were areas that had been previously surveyed as part of compliance work and were not resurveyed unless to revisit an unevaluated site. Of the 133 resources that were newly recorded during the course of the survey, 63 meet the definition of an archaeological site (Native American and/or historic period), 68 are considered isolated finds and are characterized by one to four artifacts within 50 m of each other, and two are small historic cemeteries. Five of 23 previously recorded sites within or extending into the APE were also further investigated and evaluated using intensive survey methods (31WA493, 31WA663&663**, 31WA787&787**, 31WA1186&1186**, and 31WA1348), and it should be noted that some previously recorded, unevaluated resources could not be relocated in the APE, as previously noted in Table 4.3-1. In total, including previously recorded resources, there are 156 archaeological resources within the APE. A total of 19.62 ha (48.49 acres) could not be visually inspected or surveyed due to lack of access through either denial of landowner or presence of barriers or livestock where the owner could not be reached (see Segments K, M, N, O, O, AA, and KK in Figures 4.3-1b, 4.3-1c, and 4.3-1d). These were minimally documented through informant interview, visual reconnaissance from the roadside, and remote images.

The NCDOT SOW of work for the project had anticipated one archaeological resource might be recorded for every 56 acres examined for the project or 100 resources for the entire project¹. Current results show that this under estimated the actual number of resources. For STIP project

¹ The total Complete 540 area including STIP projects R-2721, R-2828, and R-2829 is based on the final survey corridor shapefile provided by NCDOT and varies from the NCDOT SOW, which was prepared based on earlier mapping covering 7,394 acres.

Characteristic/Strategy/Resource Type	Length/Area/Number
Length	60,285.19 m
	(197,786.07 ft/37.46 mi)
Area	2,304.09 ha
	(5,693.52 acres)
Total Previously Surveyed Area (Eroded and Non-Eroded Soils)	135.25 ha (334.21 acres)
Eroded Soils (972.99 ha/2,304.32 acres)	
Total Area with Pedestrian Reconnaissance Only	909.08 ha
	(2,246.39 acres)
Total Area with Shovel Testing (30-m/98-ft Interval or Judgmental)	26.6 ha (65.73 acres)
Total Area with Pedestrian Transects (10-m/39-ft Interval)	34.39 ha (84.98 acres)
Access Denied	2.92 ha (7.22 acres)
Non-Eroded Soils (1195.85 ha/2,955.01 acres)	·
Total Area Shovel Tested at 30-m (98-ft) Interval	405.05 ha
	(1,000.9 acres)
Total Area Shovel Tested with Judgmental Test Placement	33.52 ha (82.83 acres)
Total Area Shovel Tested at Expanded Interval	13.23 ha (32.69 acres)
Total Area with Pedestrian Transects at 10-m (39-ft) Intervals	55.96 ha (138.28 acres)
Total Area, Combined Strategy (Shovel Tests/Pedestrian Transects)	.7 ha (1.73 acres)
Access Denied or Horse Pasture Not Surveyed	16.7 ha (41.27 acres)
Total Area Disturbed / Sloped / Low and Wet	670.69 ha
	(1,657.31 acres)
Total # of Shovel Tests	6,702
Total # Sites Recorded/Reinvestigated	68
Total # Isolated Finds Recorded	68
Total # Cemeteries	2

Table 5.1-1: Summary of the APE Characteristics and Survey Strategies.

R-2721 there was one resource for every 46 acres. STIP project R-2828 yielded a similar frequency of one archaeological resource documented for every 44 acres. STIP project R-2929 was the largest and most productive portion of the APE and had a frequency of one archaeological resource documented for every 30 acres. Using the average rate of resources for the three project sections (one archaeological resource per 40 acres) would predict 142 resources across the entire project, which is less than the total of 156 resources actually documented in the APE. The increase in the density of resources in the last third of the project (R-2829) may be due to the area's lesser modern development compared to the previous project sections, where there are more housing subdivisions and larger active farms.

The methodology to walk transects across moderately to severely eroded areas (42 percent of the total APE) at 30 m intervals rather than not spending any effort in these areas did locate some resources that would have gone undocumented otherwise. Overall 23 (17 percent) of all the newly documented resources were located on eroded soils (Table 5.1-2). Almost an equal number of sites and isolated finds were found on the eroded soils. Both of the historic cemeteries are located on eroded soils, which represents practical utilization of non-agriculturally productive soils. Of these resources found on eroded soils, only three were Native American

resources with diagnostic artifacts (31WA1979, 31WA1981, and 31WA2069). Aside from the cemeteries, only three of these sites had more temporally sensitive historic diagnostic artifacts (31WA1978&1978**, 31WA1986**, and 31WA2066&2066**). Interestingly, the sites that recovered diagnostic artifacts from eroded soils were also the largest in site dimension and highest in artifact density among these 23 resources. None of these sites are recommended as eligible for the NHRP because of a low artifact density and/or evidence of disturbed deposits or lack of stratigraphic integrity. While this methodology of pedestrian reconnaissance of eroded soils did increase the overall discovery of archaeological resources by 17 percent, its pattern of isolated finds versus sites was similar to the more intensive efforts performed on noneroded soils. Also, the majority of the sites located on eroded soils appear to lack research significance. However, this methodology did aid in the detection of the only cemeteries found in the entire APE and should be considered as a useful strategy to locate historic cemeteries in future NCDOT projects (in this particular case the cemeteries are depicted on modern topographic mapping but one is overgrown and is not obvious or visible from the roadway).

Type of Newly	Eroded Soils	Non-Eroded	Total	Percentage of
Documented		Soils		Resources on
Resource				Eroded Soils
Sites	10	58	68	15%
Isolated Find	11	57	68	16%
Cemetery	2	0	2	100%
Combined	23	115	138	17%

Table 5.1-2: Summary of Newly Recorded and Reevaluated Resources Located on Eroded Soils.

Half of the archaeological resources that were investigated across the APE were found on an upland flat (Table 5.1-3). All of the resources with only historic components are located on an upland flat, except for one that was on a gentle side slope. This pattern may be a reflection of historic agricultural production and the preference to cultivate the deep well-drained soils on uplands. Even for resources that possess both Native American and Historic components, 78 percent of them are associated with an upland environment. Resources with only a Native American component are located on a greater variety of landforms, but like the historic resources, upland flats are the most common location for Native American resources, representing 44 percent of the resulting sample. The project area, although almost entirely located within the Neuse River drainage basin, is situated just to the west of the Cape Fear River drainage basin. As discussed by Moore and Irwin (2013), upland corridors would likely have been used for interriverine mobility and would have been attractive for settlement locations. Aside from the mill ruins at 31WA663&663**, it is telling that only Native American resources were recovered from stream terraces. Stream terraces are abundant in resources that could be exploited by groups that incorporated forager and collector strategies. The greater diversity of landforms that serve as the setting of recovery for Native American resources is also a reflection of the greater mobility requisite of their subsistence strategies.

Type of	Native	Historic	Both	Total	Percentage of
Landform	American				Resources on
					Landform
Bench	3			3	2%
Floodplain	2			2	2%
Gentle Side	30	1	2	33	24%
Slope					
Ridge Toe	6		1	7	5%
Saddle	1		1	2	1%
Stream Terrace	17			17	12%
Stream			1	1	1%
Terrace/Upland					
Flat					
Upland Flat	48	6	15	69	50%
Ridge	1		3	4	3%
Toe/Upland					
Flat					
Combined	108	7	23	138	100%

Table 5.1-3: Summary of Newly Recorded and Reevaluated Resources by Landform.

It is striking that of the investigated resources, 78 percent of them possess only Native American components. This statistic may be the result of the survey methodology. Because of the less-intensive reconnaissance of areas of eroded soils, it is possible that many historic resources remain unrecorded. The eroded areas often correspond to areas that have been intensively plowed and cultivated over time and would have had related farmsteads and tenant houses. All but two of the resources that had both Native American and historic components were sites that received intensive investigations in the form of additional shovel testing and/or test units.

The number of sites was obviously influenced by current conditions within the APE. Since Complete 540 is a new transportation corridor, it does not follow or expand existing roadways. This survey had the opportunity to test many landforms that had not been investigated before. It does, however, cross many existing roads, and at these intersections are the areas of highest modern disturbance. The other two areas of modern overburden are the western and eastern termini of the corridor where it ties into the preexisting I-540. For the most part the corridor crosses flat upland areas and areas of more relief associated with several smaller tributaries associated with the Neuse River basin. There is a stretch of wider upland flats with lesser relief at drainage crossings that begins at the intersection with Old Stage Road (Segment N) and ends at Benson Road (Segment S). This area is characterized by some of our largest sites (for example 31WA1991&1991** and 31WA1997&1997**), some of which may represent formerly discrete habitations across a single landform that have lost distinction through yearly plowing and related processes of erosion. The primary commercial land use within the APE includes cultivation and forestry (pine plantations, both cut and currently planted); forested areas of secondary hardwood and pine growth were also common. Only a few areas with mature woodland that had not been disturbed in many years were encountered. Plowing and current as well as past logging have greatly contributed to the loss of integrity of many of the archaeological resources.
5.1.2 Trends in Native American and Historic Sites

Table 4.3-1 has previously summarized the resources documented during the survey as well as the previously recorded sites with a previous determination or that could not be relocated in the APE for evaluation. The majority of resources are unattributed Native American isolated finds and sites, but there are several sites that are concentrated according to period of occupation. Some distinctive trends concerning the location and nature of Native American and historic sites are noted below.

The earliest evidence for occupation is during the Early Archaic period at six different sites. This includes what appears to be an intact buried deposit at 31WA1997&1997** with Palmer Corner Notched points. Two concentrations of sites occur for this time period. First, in the area of wider uplands and decreased topographic relief previously discussed, four of the Early Archaic sites sit on uplands (31WA1991&1991**, 31WA1995, 31WA1997&1997**, and 31WA1186&1186**). The latter two also extend across an adjacent ridge toe with low-lying wet areas on three sides. The other concentration is along White Oak Road on an upland (31WA2032) and a saddle (31WA2039&2039**). Four of these sites are also multicomponent and represent the largest sites in the entire APE. Because of their location near the Fall Line and access to both upland and wetland subsistence resources, these Early Archaic sites could represent aggregation sites, as per the discussion for 31WA1997&1997** in Chapter 4.0.

Nine resources had evidence for occupation during the Middle Archaic period. The same area of wide upland flats and low relief that is mentioned for the Early Archaic period holds a concentration of five of these sites (31WA1991&1991**, 31WA1995, 31WA1997&1997**, 31WA2000, and 31WA2008&2008**). The rest of the sites with Middle Archaic components are not clustered (31WA1968, 31WA2039&2039**, 31WA2048&2048**, and 31WA2082&2082**). Most of these sites have historic components as well and include many of the larger sites. These resources all sit on an upland flat, except for the only isolated find, which is located on a gentle side slope and could represent displacement. Diagnostic points for the Middle Archaic were recovered from both the surface and in the plow zone, and these sites do not have intact deposits.

Ten resources (31WA1983&1983**, 31WA1985&1985**, 31WA1991&1991**, 31WA1998, 31WA2000, 31WA2008&2008**, 31WA2012, 31WA2039&2039**, 31WA2069, and 31WA2082&2082**), yielded evidence of occupation during the Late Archaic period, in the form of Savannah River Stemmed and Small Savannah River Stemmed points. These sites follow the same patterns as the Middle Archaic sites with the same concentration in the area with the wide upland flats. The only sites not situated on upland flats were the two isolated finds, and these sites yielded points and the bulk of their assemblages from the plow zone or the ground surface.

The Middle Woodland occupation is the most widespread across the APE with 14 resources yielding diagnostic artifacts of this period, primarily Yadkin series ceramics. An additional seven resources yielded indeterminate Native American ceramics and date generally to the Woodland period. There is no real concentration of resources with Middle Woodland deposits; they are more or less spread throughout the APE. These sites continue the pattern of isolated

finds not being located on upland flats. Sites that have Middle Woodland deposits appear on a greater diversity of landforms than sites with Archaic deposits. Site 31WA1997&1997** is a site with seemingly intact stratified deposits including Yadkin series ceramics above Early Archaic deposits. This site is recommended eligible for the NRHP under Criterion D. Two other sites, 31WA2009 and 31WA2087, have a very similar physical setting as 31WA1997&1997**, with a portion of the site situated on an upland flat and another portion extending down a ridge toe with low-lying wet areas bordering it on three sides. This physical setting matches Middle Woodland sites recovered on the Whites Creek survey just across the border in South Carolina along the Fall Line (Ward and Davis 1999). Aside from 31WA1997&1997**, five other resources yielded Yadkin series ceramics from beneath the plow zone or A-horizon. They include 31WA1985&1985**, 31WA2034, 31WA2065, 31WA2070, and 31WA2087. The deposits at these sites do not appear to reflect intact buried components. Site 31WA2087 also yielded sherds that are similar to the Mount Pleasant ceramic series from the Coastal Plain, providing possible evidence of interaction with groups from the east. There are a few sites that yielded small triangular points, which generally date to the Late Woodland period, but Middle Woodland period sites are by far the most widespread throughout the APE.

Of the 30 resources that yielded historic artifacts, six are not specifically attributed. All historic artifacts were recovered from the surface, plow zone, or A-horizon. Only seven of the larger multicomponent sites yielded historic artifacts or features from beneath Zone 1. They include 31WA663&663** (above ground mill ruins), 31WA1983&1983**, 31WA1985&1985**, 31WA1991&1991**, 31WA1997&1997** (subsurface square posthole and post mold), 31WA2039&31WA2039**, and 31WA2062&2062** (tobacco barn ruin/foundation). All of these sites are situated on uplands and have Native American components as well. Three of these sites have features. Five sites in the APE had artifacts (pearlware) that possessed beginning production dates in the eighteenth century, but they also yielded artifacts that date to the nineteenth and twentieth centuries. It is not necessarily likely that they represent discrete locations of eighteenth-century or early nineteenth-century activities. It is more likely that these sites represent occupations that date from well into the nineteenth century, the latter part of the production date of pearlware. The remainder of the historic sites date to the nineteenth and twentieth centuries and none of the historic sites possess evidence for intact buried deposits. In most cases these sites show signs of disturbance from intensive modern agriculture, logging, and previous road work. These disturbances along with the lack of subsurface features or deposits have made it unlikely that any of the nineteenth- to twentieth-century domestic sites within the APE display the archaeological potential to provide significant additional information. In addition, no evidence was encountered at the survey level that would suggest a link to any specific economic group or ethnicity that might relate to a special area of significance.

5.2 SUMMARY OF NRHP RECOMMENDATIONS

5.2.1 Previously Recorded Sites

Twenty-three archaeological resources have been previously mapped within or partly within the APE for the survey corridor. They are 31JT325 through 31JT328, 31WA4, 31WA287, 31WA493, 31WA663&663**, 31WA787, 31WA1186&1186** and 31WA1187, 31WA1335, 31WA1347 through 31WA1352, 31WA1368, 31WA1403, 31WA1853, 31WA1855, and 31WA1899 (see Table 4.3-1). Fourteen of the previously recorded sites in the APE were previously recommended not eligible for the NRHP when first investigated. These sites were not purposively resurveyed during this project and include 31WA287, 31WA1335, 31WA1347, 31WA1348, 31WA1349, 31WA1350, 1WA1351&1351**, 31WA1352, and 31WA1368, 31WA1899, 31JT325, 31JT326, 31JT327, 31JT328. The boundary for one, 31WA1348, was expanded when survey in an adjacent area detected additional material. The site is still recommended not eligible for the NRHP. Of the nine previously recorded sites that were unassessed for eligibility because they were reported by amateur collectors or were part of noncompliance work, only four were relocated and are recommended not eligible for the NRHP. These include 31WA493&493**, 31WA663&663** (Griffis Mill), 31WA787&787**, and 31WA1186&1186**. The remaining five sites could not be relocated based on the survey methods employed or because of lack of access or disturbance. These sites, including 31WA4, 31WA1187, 31WA1403, 31WA1853, and 31WA1855, remain unassessed. However, the survey established that any portion of the sites that may extend into the APE would not contribute to any eligibility, except in the case of 31WA1853, which could not be accessed at all due to the landowner. No evidence of the mound reported on the site form for 31WA4 was encountered, but four non-eligible sites (31WA2035, 31WA2037, 31WA2038, and 31WA2089&2089**) were newly recorded within the site boundary reported on the site form.

5.2.2 Newly Recorded Sites Recommended Not Eligible for the NRHP

None of the isolated finds or cemeteries recorded during the current survey are recommended as eligible for the NRHP under Criteria A, B, C, or D (see Table 4.3-1). The isolated finds (n=68) lack sufficient context for further interpretation, and the historic cemeteries (31WA2095** and 31WA1984**), the surface features of which were fully documented, appear to lack significant associations or distinction in funerary features or architecture.

With the exception of one site recommended as eligible for the NRHP (31WA1997&1997**), all of the remaining newly recorded archaeological sites (n=62) are recommended not eligible under Criteria A, B, C, and D or may extend outside the current APE but as documented their areas within the APE do not appear to contribute to any potential NRHP eligibility. These sites typically have either low artifact densities or evidence suggesting mixed cultural components or disturbed deposits (disturbed from plowing, erosion, deflation, and or logging-related activities). The sites appear unlikely to yield contextual data and are inappropriate for addressing significant research questions.

5.2.3 Site Recommended Eligible for the NRHP

One site is recommended eligible for the NRHP: 31WA1997&1997**. This is a large multicomponent scatter (mainly precontact Native American material) that is partly located on top of an upland flat that lies just east of Holland Church Road in a harvested sweet potato field. The site continues to the east following a narrow ridge spur with low and wet areas on three sides. Along the ridge spur the site appears to contain intact stratified deposits dating to the Early Archaic period and the Middle Woodland period. Due to its size and complexity, a total of 11 1-x-1-m test units was excavated at the site to ascertain the integrity of subsurface deposits and the stratigraphic relationships between the different portions of the site. A historic feature, a square post mold and post hole, was encountered in a shovel test in the central portion of the site on the highest portion of the landform. Further work around this historic feature did not yield evidence for significant information on historic occupation of use of the area. Two 1-x-1-m test units were opened to explore site integrity in the sweet potato field. Although this field had produced numerous artifacts from the surface including diagnostic points from the Middle Archaic period (Halifax Side Notched and possible Stanly Stemmed) and the Late Woodland period (small triangular point) as well as some historic material, the units were generally unproductive and suggest a lack of site integrity in the cultivated area.

The wooded area along the length of the ridge spur surrounded by low-lying wet areas has no evidence of plowing and yielded diagnostic artifacts and debitage from Zones 2 and 3 of test units and shovel tests. Subsurface testing along this landform indicates that the stratigraphy appears uniform across it, and it appears that the low ridge incorporates stream terrace deposits in which the archaeological record in preserved. Evidence for two different components is present in the intact stratigraphy. First, in a thin stratum comprising Zone 2 of a test unit and nearby shovel test, there are multiple sherds of two separate Yadkin series vessels (one cord-marked and the other fabric-impressed). Further testing revealed that this component extends 15 m to the north with the presence of a Yadkin series sherd in Zone 2 of another test unit. This component dates to the Middle Woodland period. Second, in Test Unit 10 a Palmer Corner Notched point was recovered from Zone 3. About 20 m to the west, another shovel test yielded a Palmer Corner Notched point from Zone 3. Zone 3 appears to correspond to an intact Early Archaic component based on the Palmer Corner Notched points and the higher lithic density.

The work on the wooded landform suggests that the extent of the Early Archaic component of the site has the same dimensions as the Middle Woodland component, about 100 m east to west and 30 m north to south. The site, based on the field results and an examination of regional research priorities, is recommended as eligible for the NRHP under Criterion D. The relatively intact stratified deposits at the site have the potential to yield significant information on Early Archaic and Middle Woodland settlement of the Central Piedmont region and the Neuse drainage basin. Information from the Early Archaic component may complement recent research on Early Archaic sites both north and south along the Fall Line at potential aggregation sites such as the Thorpe site in Rocky Mount in the Tar River drainage basin (Phelps 1980), sites 31HK23 and 31HK118 at Fort Bragg in the Cape Fear drainage basin (Moore and Irwin 2013), and the Taylor site in the Congaree drainage basin (Daniel 2001). The Middle Woodland component of the stratified deposits may yield information complementing research of similar contexts such as

those discovered in South Carolina along the Fall Line during the Whites Creek Survey (Ward and Davis 1999:95-97). Information from the Middle Woodland component may offer an opportunity to expand our current understanding of the chronological position of the Yadkin phase with respect to the Early and Middle Woodland sequence and also regarding changes in settlement and subsistence strategies in the earlier part of the Woodland period. Another potential research direction may involve analysis of Middle Woodland period occupations near the Fall Line and interaction of different groups from the Coastal Plain and the Piedmont. One other site from the current survey, 31WA2087, yielded Yadkin series ceramics as well as a possible representation of a Coastal Plain ceramic tradition, but this site has limited integrity. Nonetheless, it suggests that both sites were likely in an interaction sphere involving the two archaeological regions. The Middle Archaic and Late Woodland period components of the site, represented by Halifax Side Notched, Stanly Stemmed, and small triangular points recovered from the surface collection, do not appear to have the same information potential and do not contribute to the recommended eligibility of the site. The site is not recommended eligible under Criteria A, B, and C.

It is hoped that these results will be considered in the development of future research designs for Wake County and the Central Piedmont and Fall Line region in general. Furthermore, the results highlight the interesting contribution that can be made by linear corridors that are typical of transportation archaeology; the thin-slice sample of the various environs comprising the southern part of Wake County and part of Johnston County has facilitated this new information on archaeological potential and site transformation processes. The current study can likely be considered in relation to the overlapping study conducted for the US 64 Relocation from the Raleigh Beltline through the Knightdale area (Abbott and Sanborn 1997). An interesting aspect of the US 64 study is that they had developed a survey sample strategy that essentially focused on the uneroded soil types (as classified) with relatively level gradients in their project area (Abbott and Sanborn 1997:26-27). However, and despite this, all the sites recorded within the study area for the current project were found not eligible for the NRHP, wholly or in part due to processes of soil erosion and/or deflation. Furthermore, more than 85 percent of the archaeological resources (n=45) recorded during the fieldwork in the uneroded soils of their project area were assessed as ineligible for the NRHP, and they conclude from their results that soil erosion has a major bearing on the potential for eligible sites (Abbott and Sanborn 1997:174). Only three of the sites they recommended as eligible for the NRHP are open-air sites with eligibility based solely on subsurface integrity of archaeological deposits. The remaining three are sites with above-ground remains including extant structures, ruins, and a possible earthwork-the type of site detectable during visual reconnaissance. The open air sites include two Woodland period sites and a Late Archaic site. All three sites were revisited by NCDOT archaeologists in 2002 (Mohler and Overton 2002), at which time one appeared to be destroyed through severe recent erosion and one was tested with a 1x-1-m unit and found to have very low artifact density and limited archaeological potential. The third site remained eligible for the NRHP; this site was found in an alluvial setting that was targeted as a high potential area initially. With ultimately only one eligible open-air site in all the noneroded areas (and in a predictable setting), these results, combined with the current Complete 540 survey results suggesting only one eligible site (also appearing to be in a high-potential alluvial context), suggest that the intensive survey strategy focusing on noneroded soils was an effective one for

identifying eligible sites, especially when combined with the visual reconnaissance of eroded areas. This strategy may not address concerns raised in discussion of the Western Wake Expressway survey project, which took place just west of the Complete 540 project (Millis and Pickett 2001:85). The concerns included a cautionary note as the two potentially eligible sites identified by the survey (both open-air Native American sites) were encountered on eroded soils. Ultimately one of these sites, a Late Archaic workshop, was found ineligible for the NRHP after testing (per OSA site tracking); the other site, originally listed as an unknown precontact site, remains unassessed.

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INTENSIVE ARCHAEOLOGICAL SURVEY AND EVALUATION OF THE PREFERRED ALTERNATIVE FOR COMPLETE 540 TRIANGLE EXPRESSWAY SOUTHEAST EXTENSION, WAKE AND JOHNSTON COUNTIES, NORTH CAROLINA

State Transportation Improvement Program (STIP) Project Nos. R-2721, R-2828, and R-2829 State Project Nos. 6.401078, 6.401079, and 6.401080 Federal Aid Project Nos. STP-0540(19), STP-0540(20), and STP-0540(21) WBS Nos. 37673.1.TA2, 35516.1.TA2, and 35517.1.TA1 ER-98-0457

TECHNICAL REPORT VOLUME II (APPENDICES)



DIVISION OF HIGHWAYS ENVIRONMENTAL ANALYSIS UNIT ARCHAEOLOGY GROUP

SEPTEMBER 2017

INTENSIVE ARCHAEOLOGICAL SURVEY AND EVALUATION OF THE PREFERRED ALTERNATIVE FOR COMPLETE 540 TRIANGLE EXPRESSWAY SOUTHEAST EXTENSION, WAKE AND JOHNSTON COUNTIES, NORTH CAROLINA

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TECHNICAL REPORT: VOLUME II (APPENDICES)

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TABLE OF CONTENTS

VOLUME II: TECHNICAL REPORT APPENDICES

APPENDIX A:	NCDOT SCOPE OF WORK
APPENDIX B:	ARTIFACT INVENTORY
APPENDIX C:	LOG OF REPRESENTATIVE SITE SHOVEL TESTS

APPENDIX A

NCDOT SCOPE OF WORK

REQUEST FOR PROPOSAL: INTENSIVE ARCHAEOLOGICAL SURVEY & EVALUATION OF THE PREFERRED ALTERNATIVE FOR COMPLETE 540 TRIANGLE EXPRESSWAY SOUTHEAST EXTENION WAKE AND JOHNSTON COUNTIES, NORTH CAROLINA STIP Project Nos. R-2721, R-2828, and R-2829 State Project Nos. 6.401078, 6.401079, and 6.401080 Federal Aid Project Nos. STP-0540(19), STP-0540(20), and STP-0540(21) WBS Nos. 37673.1.TA2, 35516.1.TA2, and 35517.1.TA1



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TABLE OF CONTENTS

INTRODUCTION	3
PROJECT DESCRIPTION & BACKGROUND	3
PROJECT REQUIREMENTS	4
Task 1: Technical/Cost Proposal	4
Task 2: Archaeological Survey & Evaluation	5
Task 3: Laboratory Analysis & Artifact Curation	9
Task 4: Archaeological Technical Documentation	10
SERVICES PROVIDED BY THE NCDOT	12
DELIVERABLES	12
SCHEDULE	12
RECORDS MANAGEMENT	12
PROJECT CHANGES	13
ADDITIONAL PROVISIONS	13
REFERENCES CITED	13

REQUEST FOR PROPOSAL: INTENSIVE ARCHAEOLOGICAL SURVEY & EVALUATION, COMPLETE 540 TRIANGLE EXPRESSWAY SOUTHEAST EXTENSION, WAKE AND JOHNSTON COUNTIES, NORTH CAROLINA

I. INTRODUCTION

This scope of work for intensive archaeological survey is sponsored by the North Carolina Department of Transportation (NCDOT/client). The Complete 540 Triangle Expressway Southeast Extension is designated as three projects in the NCDOT 2016-2025 State Transportation Improvement Program (STIP): R-2721, R-2828, and R-2829. Together, these STIP projects will combine to complete the 540 Outer Loop around the Raleigh metropolitan area (Fig. 1). The project is federally funded. As such, the Federal Highway Administration (FHwA) will serve as the lead federal agency and the work will comply with procedures and policies established by the NCDOT for compliance with Section 106 of the National Historic Preservation Act of 1966 (NHPA), as amended. The report required under this agreement will comply with the North Carolina Office of State Archaeology's Archaeological Report Guidelines.

Part II, Project Description and Background, describes the undertaking. Part III outlines the requirements for the proposed project necessary to prepare the proposal. Part IV explains services to be provided by the NCDOT. Part V enumerates project deliverables to be submitted to the NCDOT. Part VI describes the project scheduling. Parts VIII and IX address Project Changes and Additional Provisions.

II. PROJECT DESCRIPTIONS AND BACKGROUND

Scope of the Highway Improvement Project

The NCDOT, in cooperation with the Federal Highway Administration, proposes transportation improvements in the project study area and surrounding region to address transportation needs. The focus of these improvements is an extension of the Triangle Expressway (NC 540) from its current terminus at the NC55 Bypass in Apex to the US 64/ US 264 Bypass in Knightdale (Fig. 2). Complete 540 will likely be constructed in phases, depending on the availability of funding and based on the STIP project. R-2721 begins at the NC55 Bypass in Apex and will terminate at US 401 (Fig. 3). R-2828 starts at US 401 and ends at I -40 (Fig. 4). Finally, R-2829 extends from I-40 to US 64/US 264 Bypass (Fig. 5). The preferred alternative will consist of six lanes, with three 12-foot lanes in each direction of travel, separated by a 70-foot median, on new location. Proposed interchange locations include the NC 55 Bypass, Holly Springs Road, Bells Lake Road, US 401, Old Stage Road, NC 50, White Oak Road, I-40, US 70 Bypass, Old Baucom Road, Auburn Knightdale Road, Poole Road, and US 64/ US264 Bypass.

Scope of the Archaeological Project

This Scope of Work details the services the North Carolina Department of Transportation is seeking in order to generate information regarding the identification and evaluation of archaeological resources within the Area of Potential Effects (APE) for the proposed location of transportation improvements to I-540 in Wake and Johnston Counties, North Carolina. The State Historic Preservation Officer (SHPO) has reviewed preliminary information regarding the proposed project and preferred alternative, and in a meeting on May 11, 2016, recommended "that a comprehensive survey be conducted by an experienced archaeologist to identify and evaluate the significance of archaeological remains that may be damaged or destroyed by the proposed project" (ER 98-0457).

For the purpose of this investigation, the APE for the Complete 540 improvement project in Wake and Johnston Counties, North Carolina is considered to correspond with the overall project study corridor boundaries representing the maximum limits of potential ground disturbing activity. The APE for the project measures 28.4 miles (45.71 km) in length and 1,000ft. (304.8 m) in width along the new location alignment. To accommodate planned interchanges, the APE will expand beyond 1,000ft. in width (see submitted Microstation or GIS shape files). In total, the APE encompasses 7,394 acres.

Archaeological resources are to be evaluated for eligibility to the National Register of Historic Places (NRHP) through the application of 36 CFR §60.4 criterion {a-d}. Evaluation of archaeological sites typically consists of establishing site integrity whereas integrity is designed by the National Park Service as "The ability of a property to convey its significance" (Shrimpton et al. 1991; Townsend et al. 1993). In the case of archaeological resources evaluated under 36 CFR §60.4 criterion {d}, characteristics that convey significance include location, design, materials, and association (see also Glassow 1977 on significance).

III. PROJECT REQUIREMENTS

The results of the survey will assist the NCDOT as a management tool, contributing to the theoretical and substantive knowledge of regional history and prehistory. This work will include background research to determine the timeframe and nature of any artifacts recovered during the investigation. Clearly defined research goals and objectives should be stated and addressed through the analysis and interpretation of the archaeological materials recovered.

Project Tasks:

The archaeological project(s) consists of four tasks:

- (1) Proposal and budget providing comprehension of the project.
- (2) Background research and intensive terrestrial archaeological survey and site evaluation of the study corridor based upon a clearly defined field methodology.
- (3) Laboratory analysis & artifact curation.
- (4) 3 Management Summaries of the field work results, and preparation of a report on the archaeological investigations with recommendations of National Register of Historic Places eligibility for the archaeological sites discovered within the project APE through application of the criteria set forth by the regulations issued by the Advisory Council on Historic Preservation (36CFR800) for Section 106 of the National Historic Preservation Act.

Task 1. Technical/Cost Proposal and Meetings

The proposal will set forth the research design and field strategies for the archaeological survey and site evaluation. Staff conducting the archaeological survey will be listed within or in an attachment to the proposal. All project personnel will meet the qualifications for professional archaeologists as listed in the *Secretary of the Interior's Professional Qualification Standards* (48 FR 22716). The proposal will include the types of analysis to be performed on artifacts recovered from the field survey and will state explicitly any assumptions used in developing the field survey and analytical strategies. This would include any background assumptions garnered from previous work or models, the use of soils and other environmental parameters, and the breakdown of total number of shovel tests anticipated for the study corridor.

The proposal budget for the archaeological survey will include the level of effort delineated in man days and costs for the following: 1) consultation & project management, 2) research & the field survey/assessment of sites, 3) site form preparation, data analysis, artifact cataloging, and 4) report preparation. Direct expenses, such as per diem, mileage (by trip destination), field supplies, photocopying, and report reproduction should be itemized in the proposal. Contingent upon negotiation and acceptance of the proposal and budget, a notice to proceed will be forwarded to the consultant. Work will begin immediately following the notice to proceed. Please submit the technical proposal to Mr. Matt Wilkerson at <u>MTWilkerson@ncdot.gov</u>.

Two meetings between the chosen consulting firm and representatives from NCDOT will be necessary to review the methodology, etc. employed for background research and fieldwork. The first meeting will include the principal investigator of the consulting firm and will review the process for archaeological work on the Complete 540 project. The second meeting will occur following the issuance of the Notice to Proceed (NTP) and before implementation of the fieldwork. This meeting will include representatives from NCDOT, OSA, and the consulting firm.

Task 2. Documentary Background Work, & Intensive Archaeological Survey and Site Evaluation of the APE/ Project Study Corridor

Field Strategy

An intensive survey, as defined by the Advisory Council on Historic Preservation (ACHP), consists of a systematic, detailed examination of an area to gather sufficient data on historic properties to evaluate them against predetermined criteria of significance within specific historic contexts. The survey of the study corridor will identify all archaeological sites including cemeteries within the project APE.

Logistical continuity dictates the organization of both the field efforts and the report preparation (Results chapter) to be divided into three parts reflecting each STIP project construction phase (R-2721, R-2828, R-2829). Furthermore, a management summary will be required following the end of survey and evaluation work for each of the three STIP sections. At the completion of each STIP, site and accession numbers should be requested from the Office of State Archaeology (OSA) by submitting GIS site boundaries and cogent site information to Susan Myers.

In consultation with OSA, it was determined that the entire APE, excepting only for areas that have been previously surveyed, will be subjected to a pedestrian reconnaissance to inspect for above-ground surface features and artifacts including resources such as structural remains (chimneys, wells, footings), cemeteries (markers, fences, depressions, periwinkle and other domestic evergreens), and artifact scatters where visibility permits. The pedestrian reconnaissance should be thorough and comprehensive, clearly demonstrable through the reporting. Other visual examinations should be done to include cut banks, road beds, and exposed, plowed or eroded surfaces to locate archaeological sites. Where possible, likely site locations on historic maps for farms, residences or industry should be noted prior to the inspections and referenced in the report. If archaeological sites are identified during the visual survey, or if otherwise warranted, subsurface testing should be completed to better determine site function, size, stratigraphy, cultural affiliation, and NRHP eligibility.

Since only undisturbed locations are anticipated to contain intact archaeological sites with good cultural and stratigraphic integrity, shovel testing will be unnecessary in areas of modern disturbance and eroded soils (Fig. 6). Eroded, sloping, and wet soils account for a large percentage (3,400 acres) of the total APE and will certainly reduce the number of expected shovel tests. The pedestrian reconnaissance will be

ample for identifying sites in these areas of erosion and disturbance. This visual portion of the survey through eroded sections should utilize between 5-11 transects, based on the judgement of the field director or crew chief, to cover the width of the APE corridor. A GIS map of the project corridor demonstrating the eroded areas unfit for subsurface survey will be supplied to the consulting firm. Modern disturbances are mostly relegated to existing roads and highways which will tie into the I-540 outer loop.

Numerous previously recorded archaeological sites (22) are located within the APE for the project. However, a majority of these sites have already been subjected to survey and evaluation and were found not eligible for National Register of Historic Places (NRHP) listing. These sites will not require a new NRHP evaluation and their known locations will be excluded from the survey's APE. When sites that have been determined not eligible are encountered through visual survey or subsurface shovel testing in the APE, as may occur through peripheral investigations, a revisit site form may be produced. Previously recorded sites in the APE that are listed as unassessed for the NRHP will be re-examined, delineated, and evaluated for NRHP eligibility and a re-visit site form will be completed. All new sites will be evaluated for NRHP eligibility and will require the completion of site forms.

It is anticipated that the excavation of around 20,000 shovel test pits will be necessary for APE coverage and to delineate archaeological sites identified by the survey. Factors including disturbance, eroded land surfaces, slope, poorly drained soils, and land access denial may lead to a reduction of this number. Based on past survey data, environmental parameters, and acreage vs. disturbance considerations, one-hundred (100) archaeological resources (site locations, isolated finds, cemeteries) are estimated to be documented as a result of this survey work. Evaluation of archaeological sites identified by the survey may necessitate the excavation of no test units (small or deflated sites, isolated artifact finds, cemeteries, disturbed sites), or the excavation of one 1m x 1m test unit to gauge NRHP eligibility. If deemed necessary, supplementary test excavations may be conducted exceeding the one (1) excavation unit limit following additional consultation with the NCDOT Archaeology Group. For example, larger sites where the deposits and features may be diffused across a wide spatial area and not easily pin-pointed by site delineation or sites with complicated geomorphology would be good candidates for additional test unit excavation.

Shovel and/or auger testing will be the primary means of identifying and locating archaeological resources. In areas of high ground visibility, artifact surface collection strategies may be incorporated into the methodology. This may be particularly useful and expedient during survey of agricultural lands characterized by intense erosion. A total of eleven (11) transects will be necessary to fully cover the 1,000 ft. wide APE. The general standard interval between tests (shovel and auger) and transects will be **100 feet/30 meters,** though this dimension may be reduced or expanded by the consultant based on landform presence/restriction, presumed archaeological site potential, disturbances, modern house locations, poorly drained soils, unfavorable hydrology, etc. When transecting is not feasible due to spatial or other restraints, judgmentally placed shovel testing based on environmental, intuition, or other factors is acceptable.

In situations that merit the testing and delineation of archaeological sites within the APE, the interval between shovel tests should measure **15 meters**. When a site is discovered based upon a positive shovel test, the testing interval will be reduced and additional *radial* shovel tests will be excavated in a cruciform pattern, which maximizes the coverage of the portion of the APE containing the site. Once the site dimensions have been established utilizing the cruciform technique, the resulting grid should be excavated to further identify potential subsurface activity areas and retrieval of cultural artifacts and temporal data useful in producing a competent evaluation of the sites NRHP eligibility. For the present

survey effort, an archaeological site is defined as five (5) or more artifacts within a 50m x 50m or greater area. An isolated find is any locus where a single artifact up to a cluster of four prehistoric or historic artifacts is contained within a 50m x 50m area. Site boundaries will be based upon positive shovel test locations (2 negative/sterile shovel test pits in a row on grid), project/APE boundaries, the distribution of surface artifacts, slope/hillside/creek/wetlands, or any other natural barrier that would have prevented occupation. Delineation of archaeological sites should not extend beyond the APE project limits. Only those portions of archaeological sites situated within the APE will be evaluated for NRHP eligibility. For example, if the survey records a site measuring roughly 10,000 square meters in the APE but is clearly larger than that, extending past the project boundaries, and evaluation found the 10,000 sq. meters disturbed and deflated, the portion delineated and assessed within the APE would constitute a non-contributing element of the overall site eligibility.

Field recordation standards will consist of the following 1) Standard forms and field books will be used for recording sites, shovel tests, features encountered, etc. 2) Photographs will be taken as necessary to document sites and features. 3) All sites will be assessed for significance, and recommendations of eligibility to the National Register of Historic Places will be completed. Enough information will be gathered at each site to support the assessment of site significance and NRHP eligibility recommendation. 4) All archaeological sites identified by the survey will be delineated in-field by GIS-GPS technologies and transferred onto scale/locational mapping (engineering design plans) as shape files. The GIS-GPS documentation should not only capture the boundaries of the archaeological sites, but also the location of all site shovel test pits, regardless of artifact recovery. Shovel tests will measure at least 30cm in diameter and will be excavated to sterile subsoil, the underlying water table, or as deep as is practicable given the limitations of subsurface testing through this methodology. Soils will be screened through ¼ inch hardware cloth and tests will be excavated in natural stratigraphic layers. Soil color and texture, and notes on the stratigraphic relationship of the artifacts will be recorded for both positive and negative shovel tests in order to characterize the nature of deposits in the project area.

a. Background and Documentary Research

Documentary research will be conducted at the State Archives and other appropriate locations to establish well-defined contexts regarding the history and prehistory of the project study area. Previous archaeological research in the area will be consulted to determine the location of documented site locations and previously recorded cemeteries within the APE. According to locational mapping data maintained at the OSA, the archaeological APE contains twenty-two (22) previously recorded archaeological sites and at least four cemeteries. This information will be available to the consultant as GIS shape files. This review will also serve to familiarize the survey investigator(s) with the local archaeological and historical site base. From an historical perspective, additional research may include sources such as census records; land deeds; historic maps and plats; family papers, wills, probate inventories; and military records from the Department of Archives and History, Wake/Johnston County courthouses, local and regional libraries; and informant interviews.

As previously mentioned, it is assumed that data garnered from local surveys, site profiles, gray literature, and historical and archaeological references will be utilized not only for contextual information, but also for the creation of a research agenda or design for the survey. It is also understood that issues of NRHP significance (while a paramount goal of the survey methodology) may not necessarily be directly related to the research topics addressed by the survey. That is to say, archaeological sites that may not be considered to be individually eligible for the NRHP may still provide the type of information required to answer the questions of the research design. The research agenda, as

based on the background and documentary research, for the current archaeological survey should provide the tools required for such determinations.

b. Excavation Procedures and Standards

The excavation plan will conform to the *Secretary of Interior's Standards and Guidelines for Archaeology and Historic Preservation* (36 CFR Part 61) and will follow these specific standards:

1. A datum will be placed in the site vicinity and all excavation units (shovel tests as well as larger test units) will be approximated according to a grid established in reference to the datum. Measurements will be recorded using metric units, with English system equivalents. Prior to excavations, a plan view of the surface features and elevations of the site should be drawn to scale and interfaced with the highway design plans.

2. A system of designation of individual cultural features, excavation units and levels will be devised and keyed to the excavation drawings, written records, and photographs.

3. Excavation units will be a standard size (i.e. 1-x-1-meter test unit), although half units or rectangular units of roughly the equivalent size may be used as necessary (i.e. a half unit to investigate a builder's trench). Soil features may be excavated discretely, rather than within units. No more than one test unit may be excavated at each archaeological site for the determination of NRHP eligibility status. However, through consultation with the NCDOT Archaeology Group, the excavation of additional test units may be warranted to uncover data imperative in further establishing significance and relevance. For isolated artifact finds and diminutive surface/subsurface artifact scatters marked by disturbance, test unit excavated project test unit locations will be documented utilizing GPS-GIS technologies and incorporated onto the corresponding site map. For the documented site locations determined eligible for NRHP listing, the placement of plastic sheets on the test unit floors prior to backfilling of test units will facilitate accommodating removal of disturbed soil burden in the event that the test unit requires relocation during subsequent investigations.

4. All hand-excavated soils will be sifted through 1/4-inch mesh. At the discretion of the field director, undisturbed lithic subsurface artifact concentrations, feature soils, or other samples a finer mesh (1/8-inch). For the sifting of feature soils or other samples, a finer mesh can be substituted. Excavated levels should conform to natural soil strata as much as possible. Soils will be described using standardized measures such as Munsell Soil Color Charts.

5. All cultural features will be properly recorded, and a representative sample of the features will be excavated by hand. Feature locations will be integrated on to the general site map. Written descriptions of features will include dimensions, shape, matrix color and texture, depth below surface, stratigraphy, and recovered materials. Features will be mapped in plan view prior to cross-section excavation, and in profile to record the cross-section. Features will be excavated by methods appropriate to their size and type. For example, post holes may be bisected, half of the fill removed, and one profile recorded; trash pits may be fully excavated if the material appears to date to the period of occupation/ significance; a small test unit may be placed to investigate the builder's trench of structural features. The depth and type of fill material will determine the extent of sampling; e.g. modern fill deposited to seal a well shaft will not be hand-excavated or screened. Intact deposits should be sampled by either screening a portion of each discrete deposit or bisecting the shaft. This will also depend on the depth and stability of the fill.

6. Flotation and/or fine-screened samples of feature fill will be processed for floral and faunal analysis if appropriate materials are present.

7. A digital photographic record of the excavations will be maintained, including images of all features in plan view and cross-section and at least two soil profiles of each excavation unit.

c. Field Safety and Security

First-Aid kits should be supplied for each project vehicle. The field director should advise crew chiefs and other personnel with directions and mapping to the nearest hospital or emergency-care facility in the event of an injury. Orange safety vests, mandated by the FHwA for all TIP projects, must be worn at all times by field personnel within the new location preferred alternative. Higher visibility in the new location areas should adequately warn land owners of the presence of a survey crew. When practical and applicable, land owners should be notified of excavation practices occurring on private property. A "carry letter" drafted by the NCDOT defining the scopes of the construction work and archaeological investigation will be given to the consultant to present to landowners and other local residents. Notification may not always be necessary or warranted, particularly in areas where there is no discernable landowner presence.

d. Constraints on the Investigation

As with many archaeological investigations, some constraints on the methodology and analysis are inevitable. Environmental factors that may affect the project include natural disturbances such as bioturbation of materials, erosion and soil matrix deflation, and modern and historic landscape alterations. The field investigator(s) will attempt to identify and consider these constraints during the course of the project work and address the findings in the written report. Subsurface shovel testing is not recommended in areas determined to be excessively disturbed or eroded or distinguished by modern development. These non-surveyed portions of the APE must be mapped and reported. Likewise, non-surveyed portions of the APE due to landowner access denial should similarly be mapped and reported within the Results section of the archaeological report. If major alterations of the Request for Proposal are necessary, they will be accomplished through the process defined in Section VIII below.

Task 3. Laboratory Analysis, Artifact Curation, Site Forms, Analyses

A number of methodologies should be adopted for the purpose of the analysis of cultural material and the evaluation of archaeological deposits. These recommendations include, but are not limited to:

1. Intra-Site Pattern Analysis: As previously mentioned, site maps or site plans should be created, illustrating the local topography and the physical characteristics of the site area that is correlated to the applied grid system. A site plan illustrating the employed excavation pattern (that is, the placement of excavation units) should be created displaying subsurface data including features and artifact clusters. The positions of all features and excavation units, as well as any other archaeological or environmental elements deemed necessary, should be tied to the position of the permanent site datum (directly or indirectly). These examinations should allow for the creation of hypotheses regarding past human behavioral and adaptive patterns.

2. Inter-Site Pattern Analysis: Maps of the project area illustrating site locations should be used to formulate hypotheses regarding geographical relationships (between sites, between sites and known resources, between sites and physiography, etc.).

3. Artifact Analysis: Artifacts will be analyzed, typed, quantified, and described in comparison to established typologies [Coe (1964), Phelps (1983), South (1977), Sprague (1981), Orser (1988), etc.] for the region.

4. Feature Content Analysis: If features, like refuse pits or middens, are encountered, the fill material will be subjected to fine screening (wet or dry) and samples of the matrix will be taken for flotation processing to recover floral and faunal samples for analysis. Charcoal suitable for radiocarbon dating will be collected from all cultural features when applicable. Further, soil sampling for pollen, phytoliths, and other ecological indicators is encouraged, at the investigator(s) discretion, for imminent processing and site interpretation or for subsequent data recovery work/analyses.

a. Artifact Curation/Storage and NC Site & Cemetery Forms

Cultural materials recovered from highway rights-of-way in North Carolina are largely submitted for curation to the Office of State Archaeology Research Center (OSARC) The NCDOT, in cooperation with that department, insures proper preservation and curation of artifacts resulting from archaeological investigations on state highway and bridge projects.

1. Artifacts recovered from all identified archaeological sites will be stored in bags or containers labeled by provenience unit, stratum, date, and other pertinent information. With the exception of historic construction materials, such as brick fragments, all artifacts will be washed, dried, inventoried, and marked with a permanent accession number. The aforementioned exemptions may, at the contractor's discretion, be discarded following proper documentation and inventorying. If required, preservation specialists from the DCR should be consulted with regards to preservation treatments for perishable items and materials.

2. Accession numbers will be assigned by the Office of State Archaeology. After analysis is complete, an inventory of all artifacts and samples will be prepared for inclusion with these materials and other appropriate documentation in the curation package as per the instructions outlined in the *Archaeological Curation Standards and Guidelines* (Office of State Archaeology 1995). Cultural materials may be temporarily stored at the contractor's laboratory facility or at the NCDOT until such time as the curation package and materials may be transferred to a facility maintained by the DCR for permanent storage.

3. North Carolina Archaeological Site/Isolate Forms will be completed for each archaeological site/isolated find recorded by the survey. North Carolina Cemetery Survey Forms will be completed for all cemeteries revisited or identified by the survey. Newly discovered cemeteries will necessitate a NC Archaeological site number and site form, but those cemeteries revisited by the survey and already assigned a NC archaeological site number will not necessitate the completion of an additional site form for the revisit. All NC Archaeological and Cemetery site forms will be submitted with the archaeological report.

Task 4. Management Summary and Archaeological Reports

A brief summary report of the results of the investigation will be prepared at the conclusion of each STIP section of fieldwork describing preliminary interpretations and the course of analysis, certifying that the research design set forth has been implemented and that the fieldwork specified has been completed. The

management summary will be provided to the NCDOT within **10 days after completion of the fieldwork**. The documents will be submitted by e-mail with hard copies sent to the HES address detailed in Task I. Results of the intensive survey of the proposed project's APE will be summarized. NRHP recommendations for all archaeological sites discovered and assessed will be presented. With the exception of site location information provided to the OSA to obtain official site numbers, the results of the archaeological survey conducted by the consultant for NCDOT will not be discussed nor disseminated until after such results have been received and reviewed by the NCDOT.

The archaeological report will comply with standards of the FHwA, the Secretary of the Interior's standards for Intensive Archaeological Survey (FR 44739), and will follow the North Carolina Office of State Archaeology's Archaeological Survey Report Guidelines. Archaeological site summaries should incorporate numerous high quality color maps and photographs, and informational tables and graphs into the text when applicable. The Draft final report will be submitted to the NCDOT for review in digital format with hard copies sent to the HES address detailed in Task I. A final report will be submitted only after receiving comments from the NCDOT on the draft final reports. In addition, the final report will include the following key elements:

a. Results of Background Research

Sufficient background research will be included within the report to demonstrate the consultant's familiarity with the types of archaeological remains likely to be encountered in the project area. This will include an examination of all archaeological site records known for the area, review of all previously recorded archaeological sites and research pertaining to the project vicinity, and examination of relevant historical sources, and local environmental, geological, and land use data.

b. Archaeological Site Significance Assessment and NRHP Recommendations

All archaeological sites discovered within the project APE must have clear, concise significance assessments with recommendations regarding eligibility to the National Register of Historic Places through application of the National Register Evaluation Criteria. Each archaeological site summary within the Results chapter of the report will therefore contain a criteria assessment utilizing the work of Glassow (1977) followed by an NRHP eligibility recommendation. These determinations will be illustrated in a summary table format in addition to the descriptive text in the report. For archaeological sites recommended as not eligible, sufficient justification must be provided. Archaeological sites recommended as eligible to the NRHP must have clear application of the criteria for eligibility (usually based on the results of close interval shovel tests and larger test units and upon the contextual information). This will include a detailed description of the field methods employed and will also incorporate a site specific research design detailing research questions that may be addressed by further archaeological investigations and/or archival research.

c. Scale Mapping and Locational Information

Reports will include ample and adequate scale mapping to allow the NCDOT to make management decisions concerning possible effects and impacts to archaeological resources evaluated by the consultant. The maps will include, but not be limited to, GPS-GIS shovel test and test unit locations, non-surveyed areas of the APE, site features, GPS-GIS shape file site boundary delineations, and landmarks with their relationship to the project area and the defined APE. The Legend designations for positive/negative and historic/prehistoric shovel test pit locations should be color coded in such a way that patterned determinations are easily discernable. Do not utilize the "half-circle shading" effect for mapped stps where one half of the circle is shaded to denote a positive location, and the opposite half is shaded to
denote a negative location. The mapping should be included both within the report text and as an appendix to the draft and final reports.

d. Additional Work Recommendations

If the consultant wishes to present detailed recommendations for additional work, these specific recommendations will be submitted directly to the NCDOT for consideration.

IV. SERVICES PROVIDED BY THE NCDOT

The NCDOT will provide mapping suitable to complete the intensive survey and site evaluation, which may include GIS shape files, aerial photography, and preliminary design plans for the project.

V. DELIVERABLES

A. 3 STIP specific Management Summaries of Archaeological Investigations for the Complete 540 project in Wake and Johnston Counties, North Carolina (three copies).

B. Draft report of Archaeological Investigations (two bound copies) and GPS shape files delineating all site locations and their respective excavations.

C. Final report of Archaeological Investigations (six bound copies, one unbound copy, and four digital copies).

D. North Carolina Archaeological Site Forms and North Carolina Cemetery Forms, if applicable (two copies each).

E. GIS shape files for each archaeological site and cemetery recorded or revisited by the survey.

VI. SCHEDULE

The consultant will have **one week** to respond to this scope of work with a proposal detailing the tasks listed above. The fieldwork will begin within two weeks after the notice to proceed is issued. The field investigation is estimated to require 12 – 14 weeks factoring for inclement weather. The management summaries will be submitted within 10 days of the completion of fieldwork. The draft final report and any North Carolina Archaeological site forms will be submitted within twelve weeks of the completion of fieldwork. Final reports will be submitted within four weeks of the receipt of NCDOT comments. Other agency comments including those provided by SHPO may require subsequent revisions to the final report prior to its ultimate acceptance.

VII. RECORDS MANAGEMENT AND CURATION OF COLLECTIONS

The consultant will make arrangements for temporary storage of all artifacts and records resulting from the investigations undertaken under this Scope of Work until the appropriate final curation facility is determined. Artifacts recovered during the investigations will be labeled and boxed according to the curation guidelines of the North Carolina Office of State Archaeology. All records, photographs, drawings, electronic media produced or obtained under this Scope of Work will be the property of the state, and any arrangement for curation, reproduction, or distribution of such materials must receive prior approval of NCDOT.

VIII. PROJECT CHANGES

Unforeseen constraints or unexpected findings may necessitate changes to the Request for Proposal for this archaeological investigation. If changes in this Request for Proposal are recommended by the consultant of by the NCDOT, the NCDOT will consult with the SHPO about the need for such provisions.

IX. ADDITIONAL PROVISIONS

Should unmarked human burials or human skeletal remains be encountered during any of these investigations, the consultant will immediately notify NCDOT and the proposed authorities as provided under the provisions of North Carolina General Statutes No. 70 {3}, "the Unmarked Human Burial and Human Skeletal Remains Protection Act." All excavation in the vicinity of human burial remains will be halted until proper authority concedes the right to continue.

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Figure 1: Map depicting the location of the project study area in Wake and Johnston Counties, North Carolina.



Expressway Southeast Extension project.



Figure 3: Western portion of the Complete 540 project encompassing STIP R-2721.



Figure 4: Central portion of the Complete 540 project encompassing STIP R-2828.





APPENDIX B

ARTIFACT INVENTORY

Appendix B - Artifact Inventory

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cour	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31JT500	2017.0088.01	ST 01	2		Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite								
31JT500	2017.0088.02	ST 04	2		Lithic Deb	2	interior flake	quartz								
31JT500	2017.0088.03	ST 06	2		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31JT500	2017.0088.03	ST 06	2		Lithic Deb	1	interior flake	quartz								
31JT500	2017.0088.04	ST 07	2		Lithic Deb	2	interior flake	quartz								
31JT500	2017.0088.05	ST 08	2		Lithic Deb	3	interior flake	metavolcanic								
31JT500	2017.0088.06	ST 09	2		NA Cer	1	body sherd	coarse/very coarse sand temper, also with angular pieces		net impr ext, plain int	n	i	indt			could relate to Dan River, but interior not scraped
31JT500	2017.0088.07	ST 11	2		Lithic Deb	3	interior flake	metavolcanic								
31JT500	2017.0088.07	ST 11	2		Lithic Deb	3	interior flake	aphyric rhyolite								
31JT500	2017.0088.08	ST 15	2		Lithic Deb	2	bifacial thinning flake	metavolcanic								
31JT500	2017.0088.08	ST 15	2		Lithic Deb	1	interior flake	quartz								
31JT500	2017.0088.08	ST 15	2		Lithic Deb	3	interior flake	metavolcanic								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Соц	int Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31JT500	2017.0088.09	ST 16	2		Lithic Deb	1	interior flake	metavolcanic								
31JT500	2017.0088.10	TU 01	1 1		Lithic Deb	2	interior flake	quartz								
31JT500	2017.0088.10	TU 01	1 1		Lithic Deb	1	interior flake	aphyric rhyolite								
31JT500	2017.0088.10	TU 01	1 1		NA Cer	1	sherd under 2cm max dimension	very coarse sand temper				i	ndt			
31JT500	2017.0088.11	TU 01	2 1		Lithic Deb	1	bifacial thinning flake	; quartz								
31JT500	2017.0088.11	TU 01	2 1		Lithic Deb	2	interior flake	quartz								
31JT500	2017.0088.11	TU 01	2 1		Lithic Deb	1	interior flake	metavolcanic								
31JT500	2017.0088.11	TU 01	2 1		NA Cer	1	sherd under 2cm max dimension and eroded					i	ndt			
31JT500	2017.0088.12	TU 01	3 1		Lithic Deb	1	bifacial thinning flake	; quartz								
31JT500	2017.0088.12	TU 01	3 1		Lithic Deb	1	interior flake	aphyric rhyolite								
31JT500	2017.0088.12	TU 01	3 1		Lithic Deb	1	interior flake	quartz								
31JT500	2017.0088.12	TU 01	3 1		Lithic Deb	1	shatter	quartzite								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31JT500	2017.0088.13	TU 01	3 2		Lithic Deb	2	interior flake	aphyric rhyolite								
31JT500	2017.0088.13	TU 01	3 2		Lithic Deb	1	interior flake	metavolcanic								
31JT500	2017.0088.13	TU 01	3 2		Lithic Deb	2	interior flake	quartz								
31JT500	2017.0088.14	TU 01	3 3		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA1186 /1186**	2017.0085.01	General Surface	surf		Glass	1	marble		complete		red and colorless			1901 - present	JPPM 2017	
31WA1186 /1186**	2017.0085.01	General Surface	surf		H Ceram	1	pearlware		rim fragment	blue edged, curved lines	bluish white and blue		transfer printed	1784 - 1840	FMNH 2017	
31WA1186 /1186**	2017.0085.01	General Surface	surf		H Ceram	1	pearlware		rim fragment	green edged, impressed straight lines, scalloped rin	bluish white and green		edged	1785 - 1840	FMNH 2017	
31WA1186 /1186**	2017.0085.01	General Surface	surf		H Ceram	1	pearlware		base fragment	blue transfer printed	bluish white and blue		transfer printed	1784 - 1840	FMNH 2017	
31WA1186 /1186**	2017.0085.01	General Surface	surf		H Ceram	1	stoneware (North American)		body fragment		buff and gray		buff bodied			
31WA1186 /1186**	2017.0085.01	General Surface	surf		H Ceram	1	stoneware (North American)		body fragment	brown glazed	brown and gray	,	gray bodied			
31WA1186 /1186**	2017.0085.01	General Surface	surf		H Ceram	1	stoneware (North American)		rim fragment	gray salt glazed exterior	gray		gray bodied			
31WA1186 /1186**	2017.0085.01	General Surface	surf		H Ceram	1	whiteware		base/footring fragment	blue transfer printed Currier and Ives Wheat Harvest	white and blue		Royal China/Currier & Ives	1934 - 1986	http://www.currierandi vesdinnerware.com/his tory.html	

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cour	t Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA1186 /1186**	2017.0085.01	General Surface	surf		H Ceram	1	whiteware		body fragment	brown and yellow transfer printed	white, brown, and yellow		transfer printed	1830 - present	Miller et al. 2000	
31WA1186 /1186**	2017.0085.01	General Surface	surf		H Ceram	1	whiteware		body fragment	pink glazed	pink		fiestaware	1937 - present	https://www.fiestafact orydirect.com/t- aboutfiesta.aspx	
31WA1186 /1186**	2017.0085.01	General Surface	surf		H Ceram	1	whiteware		body fragment	blue transfer printed Currier and Ives Wheat Harvest	white and blue		Royal China/Currier & Ives	1934 - 1986	http://www.currierandi vesdinnerware.com/his tory.html	
31WA1186 /1186**	2017.0085.01	General Surface	surf		H Ceram	1	whiteware		rim fragment		white			1830 - present	Miller et al. 2000	
31WA1186 /1186**	2017.0085.01	General Surface	surf		H Ceram	1	whiteware		rim fragment	blue edged, curved impressed lines, scalloped rim	white and blue		edged	1830 - present	Miller et al. 2000	
31WA1186 /1186**	2017.0085.01	General Surface	surf		H Ceram	1	whiteware		body fragment	brown transfer printed floral pattern	white and brown		transfer printed	1830 - present	Miller et al. 2000	
31WA1186 /1186**	2017.0085.01	General Surface	surf		Lithic Biface	1	biface	metavolcanic								
31WA1186 /1186**	2017.0085.01	General Surface	surf		Lithic Biface	1	biface	quartz								
31WA1186 /1186**	2017.0085.01	General Surface	surf		Lithic Biface	1	biface fragment	metavolcanic								
31WA1186 /1186**	2017.0085.01	General Surface	surf		Lithic Biface	1	biface fragment	quartz								
31WA1186 /1186**	2017.0085.01	General Surface	surf		Lithic Deb	5	bifacial thinning flake	quartz								
31WA1186 /1186**	2017.0085.01	General Surface	surf		Lithic Deb	1	bifacial thinning flake	metavolcanic								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)	
31WA1186 /1186**	2017.0085.01	General Surface	surf		Lithic Deb	1	flake fragment	aphyric rhyolite									
31WA1186 /1186**	2017.0085.01	General Surface	surf		Lithic Deb	7	interior flake	metavolcanic									
31WA1186 /1186**	2017.0085.01	General Surface	surf		Lithic Deb	1	interior flake	quartzite									
31WA1186 /1186**	2017.0085.01	General Surface	surf		Lithic Deb	106	interior flake	quartz									
31WA1186 /1186**	2017.0085.01	General Surface	surf		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite									
31WA1186 /1186**	2017.0085.01	General Surface	surf		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA1186 /1186**	2017.0085.01	General Surface	surf		Lithic Tool	2	retouched flake	metavolcanic									
31WA1186 /1186**	2017.0085.01	General Surface	surf		Lithic Tool	2	retouched flake	quartz									
31WA1186 /1186**	2017.0085.26	Lithic Scatter, Outside APE 01	surf		Lithic Biface	1	biface	quartz				tip only					
31WA1186 /1186**	2017.0085.26	Lithic Scatter, Outside APE 01	surf		Lithic Biface	2	biface fragment	quartz									
31WA1186 /1186**	2017.0085.26	Lithic Scatter, Outside APE 01	surf		Lithic Biface	1	point	quartz				midsection only ind	t			MT12mm	
31WA1186 /1186**	2017.0085.26	Lithic Scatter, Outside APE 01	surf		Lithic Deb	2	bifacial thinning flake	quartz									

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31WA1186 /1186**	2017.0085.26	Lithic Scatter, Outside APE 01	surf		Lithic Deb	63	interior flake	quartz								
31WA1186 /1186**	2017.0085.26	Lithic Scatter, Outside APE 01	surf		Lithic Deb	1	retouched flake	quartz								
31WA1186 /1186**	2017.0085.26	Lithic Scatter, Outside APE 01	surf		Lithic Deb	3	shatter	quartz								
31WA1186 /1186**	2017.0085.27	Lithic Scatter, Outside APE 02	surf		Lithic Biface	: 1	biface fragment	quartz porphyritic rhyolite								
31WA1186 /1186**	2017.0085.28	Lithic Scatter, Outside APE 03	surf		Lithic Biface	2	biface fragment	quartz								
31WA1186 /1186**	2017.0085.28	Lithic Scatter, Outside APE 03	surf		Lithic Deb	2	bifacial thinning flake	quartz								
31WA1186 /1186**	2017.0085.28	Lithic Scatter, Outside APE 03	surf		Lithic Deb	53	interior flake	quartz								
31WA1186 /1186**	2017.0085.29	Lithic Scatter, Outside APE 04	surf		Lithic Biface	: 1	biface	aphyric rhyolite				tip only				
31WA1186 /1186**	2017.0085.29	Lithic Scatter, Outside APE 04	surf		Lithic Biface	: 1	point	metavolcanic				tip only ind	t			
31WA1186 /1186**	2017.0085.29	Lithic Scatter, Outside APE 04	surf		Lithic Deb	8	bifacial thinning flake	metavolcanic								
31WA1186 /1186**	2017.0085.29	Lithic Scatter, Outside APE 04	surf		Lithic Deb	2	bifacial thinning flake	aphyric rhyolite								
31WA1186 /1186**	2017.0085.29	Lithic Scatter, Outside APE 04	surf		Lithic Deb	2	flake fragment	aphyric rhyolite								

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31WA1186 /1186**	2017.0085.29	Lithic Scatter, Outside APE 04	surf		Lithic Deb	1	flake fragment	metavolcanic								
31WA1186 /1186**	2017.0085.29	Lithic Scatter, Outside APE 04	surf		Lithic Deb	10	interior flake	metavolcanic								
31WA1186 /1186**	2017.0085.29	Lithic Scatter, Outside APE 04	surf		Lithic Deb	6	interior flake	aphyric rhyolite								
31WA1186 /1186**	2017.0085.30	Lithic Scatter, Outside APE 05	surf		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1186 /1186**	2017.0085.30	Lithic Scatter, Outside APE 05	surf		Lithic Deb	6	interior flake	metavolcanic								
31WA1186 /1186**	2017.0085.30	Lithic Scatter, Outside APE 05	surf		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA1186 /1186**	2017.0085.31	Lithic Scatter, Outside APE 06	surf		Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite								
31WA1186 /1186**	2017.0085.32	Lithic Scatter, Outside APE 07	surf		Lithic Tool	1	retouched flake	metavolcanic								
31WA1186 /1186**	2017.0085.33	ST 01	1		Lithic Deb	2	bifacial thinning flake	metavolcanic								
31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		Brick	1	brick		fragment	glazed						9.0 g
31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		Glass	1	container glass		base fragment		black amethyst					
31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		Glass	1	container glass		base fragment		amber					

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31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		Glass	1	container glass		body fragment		cobalt blue					
31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		Glass	1	table glass		body fragment		opaque jade green "milk glass"		Fire-King Jade-ite	e 1940s - 1976	Collectors Weekly 2016	
31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		Glass	1	table glass		rim fragment		opaque jade green "milk glass"		Fire-King Jade-ite	e 1940s - 1976	Collectors Weekly 2016	
31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		H Ceram	1	porcelain figurine		wheel fragment		white					
31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		H Ceram	1	refined earthenware		handle fragment	marbelized brown slip	white and brown		annular ware			
31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		H Ceram	2	stoneware (North American)		body fragment	brown salt glazed exterior	gray and brown	n	gray bodied			
31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		H Ceram	1	white granite (ironstone)		body fragment		white			1830s - early 20th century	JPPM 2017	
31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		H Ceram	1	whiteware		base/footring fragment	molded	white			1830 - present	Miller et al. 2000	
31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		H Ceram	1	whiteware		body fragment		white			1830 - present	Miller et al. 2000	
31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		H Ceram	1	whiteware		rim fragment		white	heat altered/melted		1830 - present	Miller et al. 2000	
31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		H Ceram	1	whiteware		rim fragment	blue and green floral decal	white, blue, and green		decal decorated/ "decalcomania"	1890s - 1950s	JPPM 2017	
31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		H Ceram	1	whiteware		base/footring fragment	green transfer printed	white and green		transfer printed	1830 - present	Miller et al. 2000	

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31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		H Ceram	1	whiteware		rim fragment	green transfer printed	white and green		transfer printed	1830 - present	Miller et al. 2000	
31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		H Ceram	2	whiteware		base/footring fragment		white			1830 - present	Miller et al. 2000	
31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		H Misc	1	plaster		fragment		white					
31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		H Misc	1	spoon	sterling silver	complete			tarnished				
31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		Lithic Deb	2	bifacial thinning flake	quartz								
31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		Lithic Deb	54	interior flake	quartz								
31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		Lithic Deb	1	interior flake	metavolcanic								
31WA1186 /1186**	2017.0085.02	Surface Collection 01	surf		Lithic Indt	1	fragment	indeterminate								
31WA1186 /1186**	2017.0085.03	Surface Collection 02	surf		H Ceram	1	whiteware		rim fragment	blue transfer printed	white and blue	2	Royal China/Currier & Ives	1934 - 1986	http://www.currierandi vesdinnerware.com/his tory.html	
31WA1186 /1186**	2017.0085.04	Surface Collection 03	surf		Lithic Biface	: 1	biface fragment	quartz								
31WA1186 /1186**	2017.0085.04	Surface Collection 03	surf		Lithic Deb	2	bifacial thinning flake	quartz								

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31WA1186 /1186**	2017.0085.04	Surface Collection 03	surf		Lithic Deb	2	interior flake	quartzite								
31WA1186 /1186**	2017.0085.04	Surface Collection 03	surf		Lithic Deb	51	interior flake	quartz								
31WA1186 /1186**	2017.0085.04	Surface Collection 03	surf		Lithic Deb	1	shatter	quartz								
31WA1186 /1186**	2017.0085.05	Surface Collection 04	surf		Lithic Deb	1	interior flake	quartz								
31WA1186 /1186**	2017.0085.06	Surface Collection 05	surf		Lithic Deb	9	bifacial thinning flake	metavolcanic								
31WA1186 /1186**	2017.0085.06	Surface Collection 05	surf		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite								
31WA1186 /1186**	2017.0085.06	Surface Collection 05	surf		Lithic Deb	1	flake fragment	aphyric rhyolite								
31WA1186 /1186**	2017.0085.06	Surface Collection 05	surf		Lithic Deb	2	interior flake	aphyric rhyolite								
31WA1186 /1186**	2017.0085.06	Surface Collection 05	surf		Lithic Deb	2	interior flake	plagioclase porphyritic rhyolite								
31WA1186 /1186**	2017.0085.06	Surface Collection 05	surf		Lithic Deb	2	interior flake	quartz porphyritic rhyolite								
31WA1186 /1186**	2017.0085.06	Surface Collection 05	surf		Lithic Deb	4	interior flake	metavolcanic								
31WA1186 /1186**	2017.0085.07	Surface Collection 06	surf		Lithic Indt	1	fragment	metavolcanic								

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31WA1186 /1186**	2017.0085.08	Surface Collection 07	surf		Lithic Tool	1	multipurpose abrader and/or anvil	schist									groundstone; purposely rounded, spalled on one side,shallow concavity on intact side
31WA1186 /1186**	2017.0085.09	Surface Collection 08	surf		Lithic Deb	1	interior flake	plagioclase- quartz porphyritic rhyolite									
31WA1186 /1186**	2017.0085.09	Surface Collection 08	surf		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA1186 /1186**	2017.0085.10	Surface Collection 09	surf		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite									
31WA1186 /1186**	2017.0085.11	Surface Collection 10	surf		Lithic Biface	: 1	point	aphyric rhyolite				complete (tiny piece of tip gone)	Palmer Corner Notched				weathered, resharpened, lighty ground base, ML49mm, SL7mm, SW17mm, BW14mm, MT7mm
31WA1186 /1186**	2017.0085.12	Surface Collection 11	surf		Lithic Biface	: 1	biface fragment	plagioclase porphyritic rhyolite									
31WA1186 /1186**	2017.0085.13	Surface Collection 12	surf		Lithic Tool	1	retouched flake	plagioclase porphyritic rhyolite									
31WA1186 /1186**	2017.0085.14	Surface Collection 13	surf		Lithic Deb	1	bifacial thinning flake	quartz									
31WA1186 /1186**	2017.0085.15	Surface Collection 14	surf		Lithic Biface	1	point	metavolcanic				tip only	indt				
31WA1186 /1186**	2017.0085.16	Surface Collection 15	surf		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA1186 /1186**	2017.0085.17	Surface Collection 16	surf		Lithic Deb	1	interior flake	quartz									
31WA1186 /1186**	2017.0085.18	Surface Collection 17	surf		Lithic Deb	2	interior flake	quartz									

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31WA1186 /1186**	2017.0085.19	Surface Collection 18	surf		Lithic Deb	2	bifacial thinning flake	quartz									
31WA1186 /1186**	2017.0085.19	Surface Collection 18	surf		Lithic Deb	6	interior flake	quartz									
31WA1186 /1186**	2017.0085.20	Surface Collection 19	surf		Lithic Deb	1	interior flake	quartz									
31WA1186 /1186**	2017.0085.20	Surface Collection 19	surf		Lithic Tool	1	core?	quartz									
31WA1186 /1186**	2017.0085.22	Surface Collection, By TU 02	surf		Lithic Biface	: 1	point	quartz				tip missing, ind broken shoulder and basal ear	It side notched				MT11mm
31WA1186 /1186**	2017.0085.22	Surface Collection, By TU 02	surf		Lithic Deb	3	bifacial thinning flake	quartz									
31WA1186 /1186**	2017.0085.22	Surface Collection, By TU 02	surf		Lithic Deb	21	interior flake	quartz									
31WA1186 /1186**	2017.0085.21	Surface Collection, Field Entrance	surf		H Ceram	1	refined earthenware		body fragment			heat altered/melted					
31WA1186 /1186**	2017.0085.21	Surface Collection, Field Entrance	surf		H Ceram	1	whiteware		body fragment		white	heat altered/melted		1830 - present	Miller et al. 2000		
31WA1186 /1186**	2017.0085.21	Surface Collection, Field Entrance	surf		Lithic Biface	: 1	biface fragment	metavolcanic									
31WA1186 /1186**	2017.0085.21	Surface Collection, Field Entrance	surf		Lithic Deb	1	interior flake	metavolcanic									
31WA1186 /1186**	2017.0085.23	Surface Collection, Outside APE 01	surf		H Ceram	1	white granite (ironstone)		body fragment		white			1830s - early 20th century	JPPM 2017		

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31WA1186 /1186**	2017.0085.23	Surface Collection, Outside APE 01	surf		H Misc	1	gear/sprocket?	copper?	complete			corroded				
31WA1186 /1186**	2017.0085.23	Surface Collection, Outside APE 01	surf		Lithic Deb	7	interior flake	quartz								
31WA1186 /1186**	2017.0085.23	Surface Collection, Outside APE 01	surf		Lithic Tool	1	retouched flake	quartz								
31WA1186 /1186**	2017.0085.24	Surface Collection, Outside APE 02	surf		Lithic Deb	1	interior flake	quartz								
31WA1186 /1186**	2017.0085.25	Surface Collection, Outside APE 03	surf		H Ceram	1	pearlware		rim fragment	blue edged, impressed curved lines	bluish white and blue		edged	1785 -1840	FMNH 2017	
31WA1186 /1186**	2017.0085.34	TU 01	1 1		Glass	1	container glass		finish fragment		colorless					wide mouth external thread finish
31WA1186 /1186**	2017.0085.34	TU 01	1 1		Glass	1	window glass				colorless	heat altered/melted				
31WA1186 /1186**	2017.0085.34	TU 01	1 1		H Ceram	1	whiteware		rim fragment	green edged, straight impressed lines	white and green		edged	1830 - present	Miller et al. 2000	
31WA1186 /1186**	2017.0085.34	TU 01	1 1		Lithic Biface	1	biface	metavolcanic					mid/late stage			
31WA1186 /1186**	2017.0085.34	TU 01	1 1		Lithic Biface	1	point	quartz				complete	like small Dalton per Daniel 1998, but not			no grinding of concave base, ML30mm, BW19mm, MT6mm
31WA1186 /1186**	2017.0085.34	TU 01	1 1		Lithic Deb	9	interior flake	quartz								
31WA1186 /1186**	2017.0085.34	TU 01	1 1		Lithic Deb	1	interior flake	metavolcanic								

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31WA1186 /1186**	2017.0085.36	TU 01	2 1	plowscars	Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1186 /1186**	2017.0085.35	TU 01	2 1		Lithic Deb	4	interior flake	metavolcanic								
31WA1186 /1186**	2017.0085.35	TU 01	2 1		Lithic Deb	5	interior flake	quartz								
31WA1186 /1186**	2017.0085.35	TU 01	2 1		Lithic Deb	1	interior flake	quartzite								
31WA1186 /1186**	2017.0085.37	TU 01	2 2		Lithic Deb	2	interior flake	quartz								
31WA1186 /1186**	2017.0085.38	TU 02	1 2		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite								
31WA1186 /1186**	2017.0085.38	TU 02	1 2		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1186 /1186**	2017.0085.38	TU 02	1 2		Lithic Deb	2	interior flake	metavolcanic								
31WA1186 /1186**	2017.0085.38	TU 02	1 2		Lithic Deb	3	interior flake	aphyric rhyolite								
31WA1186 /1186**	2017.0085.38	TU 02	1 2		Lithic Deb	28	interior flake	quartz								
31WA1186 /1186**	2017.0085.38	TU 02	1 2		Lithic Deb	1	pressure/retouch flake	a aphyric rhyolite								
31WA1186 /1186**	2017.0085.39	TU 02	2 1		Lithic Deb	1	bifacial thinning flake	quartz								

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31WA1186 /1186**	2017.0085.39	TU 02	2 1		Lithic Deb	5	interior flake	aphyric rhyolite								
31WA1186 /1186**	2017.0085.39	TU 02	2 1		Lithic Deb	17	interior flake	quartz								
31WA1186 /1186**	2017.0085.39	TU 02	2 1		Lithic Deb	3	shatter	quartz								
31WA1186 /1186**	2017.0085.40	TU 02	2 2		Lithic Deb	12	interior flake	quartz								
31WA1348	2017.0222.01	General Surface	surf		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite								
31WA1348	2017.0222.01	General Surface	surf		Lithic Deb	1	flake fragment	aphyric rhyolite								
31WA1348	2017.0222.01	General Surface	surf		Lithic Deb	2	interior flake	metavolcanic								
31WA1348	2017.0222.01	General Surface	surf		Lithic Deb	2	interior flake	quartz								
31WA1348	2017.0222.02	ST 01	1		Lithic Deb	1	interior flake	quartz								
31WA1959	2017.0029.01	ST 01	2		Lithic Deb	2	interior flake	quartz								
31WA1959	2017.0029.01	ST 01	2		Lithic Tool	1	retouched flake	quartz								
31WA1959	2017.0029.02	ST 02	2		Lithic Deb	11	interior flake	quartz								

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31WA1959	2017.0029.03	ST 04	2		Lithic Deb	5	interior flake	quartz									
31WA1959	2017.0029.04	ST 05	2		Lithic Deb	1	interior flake	quartz									
31WA1959	2017.0029.05	ST 13	2		Lithic Deb	1	bifacial thinning flake	; quartz									
31WA1959	2017.0029.05	ST 13	2		Lithic Deb	15	interior flake	quartz									
31WA1959	2017.0029.06	TU 01	1 1		Lithic Deb	4	bifacial thinning flake	; quartz									
31WA1959	2017.0029.06	TU 01	1 1		Lithic Deb	119	interior flake	quartz									
31WA1959	2017.0029.06	TU 01	1 1		Lithic Deb	4	shatter	quartz									
31WA1959	2017.0029.06	TU 01	1 1		Lithic Indt	2	fragment	quartz									
31WA1959	2017.0029.06	TU 01	1 1		Lithic Indt	1	unmodified pebble	quartzite									
31WA1959	2017.0029.06	TU 01	1 1		Lithic Indt	3	unmodified pebble	quartz									
31WA1959	2017.0029.07	TU 01	2 1		Lithic Deb	79	interior flake	quartz									
31WA1959	2017.0029.07	TU 01	2 1		Lithic Deb	3	shatter	quartz									

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA1959	2017.0029.07	TU 01	2 1		Lithic Indt	3	unmodified pebble	quartz								
31WA1959	2017.0029.07	TU 01	2 1		Lithic Tool	1	retouched flake	quartz								
31WA1959	2017.0029.08	TU 01	2 2		Lithic Deb	1	bifacial thinning flake	quartz								
31WA1959	2017.0029.08	TU 01	2 2		Lithic Deb	26	interior flake	quartz								
31WA1959	2017.0029.08	TU 01	2 2		Lithic Deb	1	shatter	quartz								
31WA1959	2017.0029.08	TU 01	2 2		Lithic Indt	3	unmodified pebble	quartz								
31WA1959	2017.0029.09	TU 01	3 1		Lithic Deb	20	interior flake	quartz								
31WA1959	2017.0029.09	TU 01	3 1		Lithic Indt	2	unmodified pebble	quartz								
31WA1959	2017.0029.10	TU 01, Feature 1			Lithic Deb	68	interior flake	quartz								
31WA1959	2017.0029.10	TU 01, Feature 1			Lithic Deb	1	shatter	quartz								
31WA1959	2017.0029.11	TU 02	1 1		Lithic Deb	3	interior flake	plagioclase porphyritic rhyolite								
31WA1959	2017.0029.11	TU 02	1 1		Lithic Deb	8	interior flake	quartz								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cour	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA1959	2017.0029.12	TU 02	2 1		Lithic Deb	1	flake fragment	plagioclase porphyritic rhyolite								
31WA1959	2017.0029.12	TU 02	2 1		Lithic Deb	14	interior flake	quartz								
31WA1959	2017.0029.12	TU 02	2 1		Lithic Deb	1	interior flake	metavolcanic								
31WA1959	2017.0029.12	TU 02	2 1		Lithic Deb	2	interior flake	plagioclase porphyritic rhyolite								
31WA1959	2017.0029.13	TU 02	3 1		Lithic Deb	1	flake fragment	plagioclase porphyritic rhyolite								
31WA1959	2017.0029.13	TU 02	3 1		Lithic Deb	3	interior flake	rhyolitic breccia?								
31WA1959	2017.0029.13	TU 02	3 1		Lithic Deb	30	interior flake	quartz								
31WA1959	2017.0029.13	TU 02	3 1		Lithic Deb	8	interior flake	plagioclase porphyritic rhyolite								
31WA1959	2017.0029.13	TU 02	3 1		Lithic Indt	1	unmodified pebble	quartz								
31WA1959	2017.0029.14	TU 02	3 2		Lithic Deb	1	decortication flake	quartzite								
31WA1959	2017.0029.14	TU 02	3 2		Lithic Deb	1	flake fragment	plagioclase porphyritic rhyolite								
31WA1959	2017.0029.14	TU 02	3 2		Lithic Deb	1	interior flake	aphyric rhyolite								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA1959	2017.0029.14	TU 02	3 2		Lithic Deb	10	interior flake	quartz								
31WA1959	2017.0029.14	TU 02	3 2		Lithic Indt	1	unmodified pebble	quartz								
31WA1959	2017.0029.15	TU 02	3 3		Lithic Deb	2	interior flake	quartz								
31WA1960	2017.0030.01	ST 01	1 (A)	ST G5	Lithic Biface	1	biface fragment	quartz								mid- to late-stage
31WA1960	2017.0030.01	ST 01	1 (A)	ST G5	Lithic Deb	1	interior flake	quartz								
31WA1960	2017.0030.02	ST 02	1 (A)	ST G5N	Lithic Tool	1	retouched flake	quartz								
31WA1961	2017.0031.01	ST 01	2		Lithic Deb	3	interior flake	quartz								
31WA1961	2017.0031.01	ST 01	2		Lithic Deb	2	interior flake	aphyric rhyolite								
31WA1962	2017.0032.01	ST 01	2	ST W3	Lithic Deb	1	interior flake	quartz								
31WA1963	2017.0033.01	ST 01	2		Lithic Deb	2	interior flake	quartz								
31WA1964	2017.0034.01	ST 01	1		Lithic Deb	2	interior flake	quartz								
31WA1964	2017.0034.02	ST 02	1		Lithic Deb	5	interior flake	quartz								

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31WA1964	2017.0034.03	ST 02	2		Lithic Deb	1	interior flake	quartz									
31WA1964	2017.0034.04	ST 06	1		Lithic Deb	1	interior flake	quartz									
31WA1964	2017.0034.05	ST 07	2		Lithic Deb	1	interior flake	quartz									
31WA1964	2017.0034.06	ST 12	1		Lithic Deb	1	shatter	quartz									
31WA1965	2017.0035.01	ST 01	1		Lithic Deb	1	interior flake	quartz									
31WA1966	2017.0036.01	ST 01	2		Lithic Deb	1	interior flake	quartz									
31WA1967	2017.0037.01	ST 01	1		Lithic Deb	2	interior flake	quartz									
31WA1968	2017.0038.01	ST 01	1	ST 08	Lithic Biface	1	point	metavolcanic				tip missing, St broken shoulder	anly Stemmed			ML(53mm), MT11mm	SL9mm,
31WA1968	2017.0038.02	ST 10	1		Lithic Deb	1	decortication flake	quartz								possible scra	per?
31WA1968	2017.0038.02	ST 10	1		Lithic Deb	1	interior flake	quartz									
31WA1969	2017.0039.01	ST 01	1		Lithic Deb	6	interior flake	quartz									
31WA1970	2017.0040.01	ST 01	1		Lithic Deb	1	bifacial thinning flake	g quartz									

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31WA1970	2017.0040.01	ST 01	1		Lithic Deb	1	interior flake	quartz									
31WA1970	2017.0040.02	ST 04	1		Lithic Deb	3	interior flake	quartz									
31WA1970	2017.0040.03	ST 11	1		Lithic Deb	2	interior flake	quartz									
31WA1971	2017.0041.01	ST 01	1		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA1971	2017.0041.02	ST 06	1		Lithic Deb	2	bifacial thinning flake	quartz									
31WA1971	2017.0041.02	ST 06	1		Lithic Deb	2	interior flake	quartz									
31WA1972	2017.0042.01	ST 01	1		Lithic Deb	2	bifacial thinning flake	metavolcanic									
31WA1973 /1973**	2017.0043.04	ST 01	1		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA1973 /1973**	2017.0043.04	ST 01	1		Lithic Deb	3	interior flake	quartz									
31WA1973 /1973**	2017.0043.04	ST 01	1		Lithic Deb	1	interior flake	quartzite									
31WA1973 /1973**	2017.0043.04	ST 01	1		Lithic Deb	2	interior flake	aphyric rhyolite									
31WA1973 /1973**	2017.0043.05	ST 01	2		Lithic Deb	1	interior flake	quartz									

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA1973 /1973**	2017.0043.06	ST 03	1		H Ceram	1	whiteware		body fragment		white			1830 - present	Miller et al. 2000	
31WA1973 /1973**	2017.0043.06	ST 03	1		H Ceram	2	whiteware		rim fragment		white			1830 - present	Miller et al. 2000	
31WA1973 /1973**	2017.0043.07	ST 07	1		Lithic Deb	1	bifacial thinning flake	quartz								
31WA1973 /1973**	2017.0043.07	ST 07	1		Lithic Deb	1	interior flake	quartz								
31WA1973 /1973**	2017.0043.08	ST 08	1		Lithic Deb	1	bifacial thinning flake	quartz								
31WA1973 /1973**	2017.0043.08	ST 08	1		Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite								
31WA1973 /1973**	2017.0043.08	ST 08	1		Lithic Indt	1	split cobble	quartzite								
31WA1973 /1973**	2017.0043.09	ST 09	1		Lithic Deb	1	bifacial thinning flake	quartz								
31WA1973 /1973**	2017.0043.10	ST 18	1		Lithic Deb	1	interior flake	quartz								
31WA1973 /1973**	2017.0043.11	ST 20	2		Lithic Biface	1	point	quartz				tip only	indt			from narrow blade
31WA1973 /1973**	2017.0043.12	ST 23	1		Lithic Deb	1	bifacial thinning flake	quartz								
31WA1973 /1973**	2017.0043.12	ST 23	1		Lithic Deb	1	interior flake	quartz								

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31WA1973 /1973**	2017.0043.13	ST 24	1		Lithic Deb	1	bifacial thinning flake	quartz								
31WA1973 /1973**	2017.0043.14	ST 27	1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1973 /1973**	2017.0043.14	ST 27	1		Lithic Deb	1	bifacial thinning flake	quartz								
31WA1973 /1973**	2017.0043.14	ST 27	1		Lithic Deb	3	interior flake	metavolcanic								
31WA1973 /1973**	2017.0043.14	ST 27	1		Lithic Deb	1	interior flake	quartz								
31WA1973 /1973**	2017.0043.15	ST 30	1		Lithic Deb	2	interior flake	quartz								
31WA1973 /1973**	2017.0043.16	ST 32	1		Lithic Deb	1	bifacial thinning flake	metavolcanic								refit
31WA1973 /1973**	2017.0043.17	ST 33	2		Lithic Deb	2	interior flake	quartz								
31WA1973 /1973**	2017.0043.18	ST 35	1		Lithic Deb	1	interior flake	quartz								
31WA1973 /1973**	2017.0043.19	ST 37	1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1973 /1973**	2017.0043.01	Surface Collection 1	surf	N of ST 0	7 Lithic Deb	1	bifacial thinning flake	plagioclase- quartz porphyritic rhyolite								
31WA1973 /1973**	2017.0043.02	Surface Collection 2	surf		Lithic Deb	2	interior flake	quartz								

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31WA1973 /1973**	2017.0043.03	Surface Collection 3	surf		Lithic Deb	1	unmodified cobble	quartzite								
31WA1973 /1973**	2017.0043.20	TU 01	1 1		Lithic Deb	1	bifacial thinning flake	plagioclase- quartz porphyritic rhyolite								
31WA1973 /1973**	2017.0043.20	TU 01	1 1		Lithic Deb	2	bifacial thinning flake	metavolcanic								
31WA1973 /1973**	2017.0043.20	TU 01	1 1		Lithic Deb	4	interior flake	metavolcanic								
31WA1973 /1973**	2017.0043.20	TU 01	1 1		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA1973 /1973**	2017.0043.20	TU 01	1 1		Lithic Deb	18	interior flake	quartz								
31WA1973 /1973**	2017.0043.21	TU 01	1 2		Lithic Deb	3	bifacial thinning flake	metavolcanic								
31WA1973 /1973**	2017.0043.21	TU 01	1 2		Lithic Deb	1	bifacial thinning flake	quartz								
31WA1973 /1973**	2017.0043.21	TU 01	1 2		Lithic Deb	1	flake fragment	metavolcanic								
31WA1973 /1973**	2017.0043.21	TU 01	1 2		Lithic Deb	4	interior flake	quartz								
31WA1973 /1973**	2017.0043.21	TU 01	1 2		Lithic Deb	3	interior flake	metavolcanic								
31WA1973 /1973**	2017.0043.22	TU 01	2 1		Lithic Deb	6	bifacial thinning flake	metavolcanic								

Site	Accession #	ST/Unit or Fea.	Zone Leve	el Other Prov.	Analytic Class	Cour	t Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA1973 /1973**	2017.0043.22	TU 01	2 1		Lithic Deb	2	bifacial thinning flake	quartz								
31WA1973 /1973**	2017.0043.22	TU 01	2 1		Lithic Deb	9	interior flake	metavolcanic								
31WA1973 /1973**	2017.0043.22	TU 01	2 1		Lithic Deb	2	interior flake	quartzite								
31WA1973 /1973**	2017.0043.22	TU 01	2 1		Lithic Deb	8	interior flake	quartz								
31WA1973 /1973**	2017.0043.23	TU 01	3 1		Lithic Deb	2	bifacial thinning flake	metavolcanic								
31WA1973 /1973**	2017.0043.23	TU 01	3 1		Lithic Deb	1	decortication flake	metavolcanic								
31WA1973 /1973**	2017.0043.23	TU 01	3 1		Lithic Deb	6	interior flake	metavolcanic								
31WA1973 /1973**	2017.0043.23	TU 01	3 1		Lithic Deb	2	interior flake	quartz								
31WA1973 /1973**	2017.0043.24	TU 01, Wall Cleaning			Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1973 /1973**	2017.0043.24	TU 01, Wall Cleaning			Lithic Deb	2	interior flake	metavolcanic								
31WA1973 /1973**	2017.0043.24	TU 01, Wall Cleaning			Lithic Deb	1	interior flake	quartz								
31WA1973 /1973**	2017.0043.25	TU 02	1 1		Lithic Deb	1	bifacial thinning flake	quartz								

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31WA1973 /1973**	2017.0043.25	TU 02	1 1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1973 /1973**	2017.0043.25	TU 02	1 1		Lithic Deb	3	interior flake	metavolcanic								
31WA1973 /1973**	2017.0043.25	TU 02	1 1		Lithic Deb	6	interior flake	quartz								
31WA1973 /1973**	2017.0043.26	TU 02	1 2		H Arms	1	bullet cartridge	brass	fragment			corroded				
31WA1973 /1973**	2017.0043.26	TU 02	1 2		Lithic Deb	8	interior flake	quartz								
31WA1973 /1973**	2017.0043.26	TU 02	1 2		Lithic Deb	3	interior flake	metavolcanic								
31WA1973 /1973**	2017.0043.27	TU 02	2 1		Lithic Deb	1	interior flake	plagioclase- quartz porphyritic rhyolite								
31WA1973 /1973**	2017.0043.27	TU 02	2 1		Lithic Deb	2	interior flake	quartz								
31WA1973 /1973**	2017.0043.29	TU 02	2 3		Lithic Deb	2	interior flake	aphyric rhyolite								
31WA1973 /1973**	2017.0043.28	TU 02, East Half	2 2		Lithic Deb	2	bifacial thinning flake	quartz								
31WA1973 /1973**	2017.0043.28	TU 02, East Half	2 2		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite								
31WA1973 /1973**	2017.0043.28	TU 02, East Half	2 2		Lithic Deb	5	interior flake	quartz								

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31WA1973 /1973**	2017.0043.30	TU 02, Feature 1	2		Botanical		charcoal									2.7	
31WA1973 /1973**	2017.0043.30	TU 02, Feature 1	2		Lithic Deb	1	interior flake	quartz									
31WA1973 /1973**	2017.0043.30	TU 02, Feature 1	2		Lithic Deb	1	interior flake	metavolcanic									
31WA1973 /1973**	2017.0043.30	TU 02, Feature 1	2		Lithic Indt	1	indt fragment	quartzite									
31WA1973 /1973**	2017.0043.30	TU 02, Feature 1	2		Lithic Indt	2	indt spall	chert									similar to Williamson chert from southern VA
31WA1973 /1973**	2017.0043.30	TU 02, Feature 1	2		Lithic Indt	1	unmodified cobble	quartzite									
31WA1973 /1973**	2017.0043.31	TU 02, North Wall Cleaning			Lithic Deb	1	interior flake	quartz									
31WA1973 /1973**	2017.0043.33	TU 02, South Wall Cleaning			Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA1973 /1973**	2017.0043.32	TU 02, West Wall Cleaning			Lithic Deb	1	interior flake	aphyric rhyolite									
31WA1974	2017.0044.01	ST 03	1		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA1974	2017.0044.02	ST 04	1		Lithic Indt	1	tested cobble?	quartzite									
31WA1975	2017.0045.01	ST 05	1		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite									
Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)	
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31WA1976 /1976**	2017.0046.01	ST 01	1		Lithic Deb	1	interior flake	metavolcanic									
31WA1976 /1976**	2017.0046.02	ST 02	1		H Ceram	1	whiteware		body fragment	green, black, and pink floral polychrome hand painted floral design	white, green, black, and pinl	k	hand painted polychrome	1830 - present	Miller et al. 2000		
31WA1977 **	2017.0047.01	ST 01	1		H Ceram	1	stoneware (North American)		body fragment	glazed exterior	buff		buff bodied				
31WA1977 **	2017.0047.02	ST 03	1		H Ceram	1	whiteware		body fragment		white			1830 - present	Miller et al. 2000		
31WA1977 **	2017.0047.03	ST 04	1		H Ceram	1	whiteware		body fragment		white			1830 - present	Miller et al. 2000		
31WA1977 **	2017.0047.04	ST 13	1		Glass	1	container glass		body fragment		aqua						
31WA1977 **	2017.0047.04	ST 13	1		H Fasten/Tool	1	nail	iron	fragment			corroded	indeterminate				
31WA1978 /1978**	2017.0048.01	ST 01	1		Brick	2	brick		fragment							8.0 g	
31WA1978 /1978**	2017.0048.01	ST 01	1		Glass	1	container glass		body fragment		amethyst	heat altered/melted	solarized/ manganese dioxide decolorized	1820s - 1930s (most common 1890 - 1920)	Lindsey 2017		
31WA1978 /1978**	2017.0048.01	ST 01	1		Glass	2	container glass		body fragment		light aqua						
31WA1978 /1978**	2017.0048.01	ST 01	1		Glass	1	window glass				colorless						
31WA1978 /1978**	2017.0048.01	ST 01	1		H Fasten/Tool	2	nail	iron	complete			heavily corrode	d indeterminate				

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31WA1978 /1978**	2017.0048.01	ST 01	1		Lithic Deb	1	interior flake	quartz								
31WA1978 /1978**	2017.0048.02	ST 03	1		Brick	3	brick		fragment							10.0 g
31WA1978 /1978**	2017.0048.02	ST 03	1		Glass	2	container glass		body fragment		aqua					
31WA1978 /1978**	2017.0048.02	ST 03	1		Glass	1	container glass		body fragment		colorless					
31WA1978 /1978**	2017.0048.02	ST 03	1		Glass	2	window glass				aqua					
31WA1978 /1978**	2017.0048.02	ST 03	1		H Ceram	1	porcelain		body fragment		white					
31WA1978 /1978**	2017.0048.02	ST 03	1		H Ceram	1	porcelain		base/footring fragment		white					
31WA1978 /1978**	2017.0048.03	ST 05	1		Brick	1	brick		fragment							<1.0 g
31WA1978 /1978**	2017.0048.03	ST 05	1		Glass	1	container glass		body fragment		aqua					
31WA1978 /1978**	2017.0048.03	ST 05	1		Glass	1	container glass		body fragment		colorless					
31WA1978 /1978**	2017.0048.03	ST 05	1		Glass	1	container glass		body fragment		aqua	heat altered/melted				
31WA1978 /1978**	2017.0048.03	ST 05	1		H Ceram	1	whiteware		rim fragment	molded	white			1830 - present	Miller et al. 2000	

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight (g)	Comment
31WA1978 /1978**	2017.0048.03	ST 05	1		H Ceram	1	whiteware		body fragment		white and blac	k heat altered/melted		1830 - present	Miller et al. 2000		
31WA1978 /1978**	2017.0048.04	ST 06	1		Brick	2	brick		fragment							2.0 g	
31WA1978 /1978**	2017.0048.04	ST 06	1		Glass	2	container glass		finish fragment		colorless						wide mouth external thread finish
31WA1978 /1978**	2017.0048.04	ST 06	1		Glass	1	container glass		body fragment		amethyst		solarized/ manganese dioxide decolorized	1820s - 1930s (most common 1890 - 1920)	Lindsey 2017		
31WA1978 /1978**	2017.0048.04	ST 06	1		Glass	2	container glass		body fragment		colorless						
31WA1978 /1978**	2017.0048.04	ST 06	1		Glass	1	container glass		body fragment		aqua						
31WA1978 /1978**	2017.0048.04	ST 06	1		Glass	1	container glass		body fragment		opaque white "milk glass"			primarily 1870s - mid- 20th century	Lindsey 2017		
31WA1978 /1978**	2017.0048.04	ST 06	1		Glass	1	window glass				aqua						
31WA1978 /1978**	2017.0048.04	ST 06	1		H Ceram	1	whiteware		body fragment		white			1830 - present	Miller et al. 2000		
31WA1978 /1978**	2017.0048.04	ST 06	1		H Misc	1	plastic		fragment		white						
31WA1978 /1978**	2017.0048.04	ST 06	1		Lithic Deb	3	interior flake	quartz									
31WA1978 /1978**	2017.0048.05	ST 14	1		Lithic Deb	1	bifacial thinning flake	quartz									

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31WA1979	2017.0049.01	ST 01	1		Lithic Biface	1	point	plagioclase- quartz porphyritic rhyolite					Large Triangular				Roanoke/Yadkin Large Tri, ML(50mm), MW29mm, MT6mm
31WA1980	2017.0050.01	General Surface	surf		Lithic Deb	1	interior flake	quartz					Large Triangular				
31WA1981	2017.0051.01	General Surface 01	surf		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite									
31WA1981	2017.0051.01	General Surface 01	surf		Lithic Deb	1	interior flake	plagioclase- quartz porphyritic rhyolite									
31WA1981	2017.0051.01	General Surface 01	surf		Lithic Deb	1	interior flake	metavolcanic									
31WA1981	2017.0051.01	General Surface 01	surf		Lithic Deb	31	interior flake	quartz									
31WA1981	2017.0051.01	General Surface 01	surf		Lithic Deb	1	shatter	quartz									
31WA1981	2017.0051.01	General Surface 01	surf		Lithic Tool	1	retouched flake	quartz									
31WA1981	2017.0051.02	General Surface 02	surf		Lithic Deb	2	interior flake	quartz									
31WA1981	2017.0051.03	ST 01	1		Lithic Deb	1	flake fragment	quartz									
31WA1981	2017.0051.03	ST 01	1		Lithic Deb	3	interior flake	quartz									
31WA1981	2017.0051.04	ST 01	3		Lithic Deb	11	interior flake	quartz									

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)	
31WA1981	2017.0051.05	ST 03	1		Lithic Deb	1	interior flake	quartz									
31WA1981	2017.0051.06	ST 03	2		Lithic Deb	1	flake fragment	aphyric rhyolite									
31WA1981	2017.0051.06	ST 03	2		Lithic Deb	2	interior flake	aphyric rhyolite									
31WA1981	2017.0051.07	ST 05	1		Lithic Deb	1	interior flake	quartz									
31WA1981	2017.0051.08	ST 05	2		Lithic Deb	1	decortication flake	quartzite									
31WA1981	2017.0051.08	ST 05	2		Lithic Deb	1	interior flake	quartzite									
31WA1981	2017.0051.08	ST 05	2		NA Cer	1	sherd under 2cm max dimension	angular quartz temper				i	ndt due to size				
31WA1981	2017.0051.09	ST 12	2		Lithic Deb	1	interior flake	quartz									
31WA1981	2017.0051.10	TU 01	1 1		Lithic Deb	1	bifacial thinning flake	; quartz									
31WA1981	2017.0051.10	TU 01	1 1		NA Cer	1	sherd under 2cm max dimension	angular quartz and coarse sand temper				i	ndt due to size				
31WA1981	2017.0051.11	TU 01	2 1		Lithic Deb	1	interior flake	quartz									
31WA1982	2017.0052.01	ST 01	2		Lithic Deb	1	interior flake	aphyric rhyolite									

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA1982	2017.0052.01	ST 01	2		Lithic Deb	1	interior flake	quartz porphyritic rhyolite								
31WA1983 /1983**	2017.0053.01	General Surface	surf		Lithic Biface	1	late stage biface	e indt								
31WA1983 /1983**	2017.0053.02	ST 01	1		Lithic Deb	1	interior flake	metavolcanic								
31WA1983 /1983**	2017.0053.03	ST 04	1		Lithic Deb	3	interior flake	quartz								
31WA1983 /1983**	2017.0053.04	ST 04	2		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA1983 /1983**	2017.0053.05	ST 08	1		Lithic Deb	1	interior flake	quartz								
31WA1983 /1983**	2017.0053.06	ST 14	1		Lithic Deb	4	bifacial thinning flake	metavolcanic								
31WA1983 /1983**	2017.0053.06	ST 14	1		Lithic Deb	1	interior flake	quartz								
31WA1983 /1983**	2017.0053.06	ST 14	1		Lithic Deb	2	interior flake	metavolcanic								
31WA1983 /1983**	2017.0053.06	ST 14	1		Lithic Indt	1	possible concretion									
31WA1983 /1983**	2017.0053.07	ST 16	1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1983 /1983**	2017.0053.08	ST 18	1		Lithic Deb	1	bifacial thinning flake	; metavolcanic								

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31WA1983 /1983**	2017.0053.08	ST 18	1		Lithic Deb	1	interior flake	plagioclase- quartz porphyritic rhyolite								
31WA1983 /1983**	2017.0053.08	ST 18	1		Lithic Deb	4	interior flake	metavolcanic								
31WA1983 /1983**	2017.0053.08	ST 18	1		Lithic Deb	1	interior flake	quartz								
31WA1983 /1983**	2017.0053.09	ST 19	1		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite								
31WA1983 /1983**	2017.0053.09	ST 19	1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1983 /1983**	2017.0053.09	ST 19	1		Lithic Deb	2	interior flake	metavolcanic								
31WA1983 /1983**	2017.0053.10	ST 22	1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1983 /1983**	2017.0053.11	ST 23	1		Lithic Deb	2	interior flake	metavolcanic								
31WA1983 /1983**	2017.0053.12	ST 24	1		Lithic Tool?	1	utilitzed flake?	quartz								
31WA1983 /1983**	2017.0053.13	ST 25	1		H Ceram	1	whiteware		body fragment		white			1830 - present	Miller et al. 2000	
31WA1983 /1983**	2017.0053.13	ST 25	1		Lithic Deb	1	interior flake	quartz								
31WA1983 /1983**	2017.0053.14	ST 25	2		Lithic Deb	1	bifacial thinning flake	quartz								

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31WA1983 /1983**	2017.0053.15	ST 27	1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1983 /1983**	2017.0053.15	ST 27	1		Lithic Deb	1	interior flake	quartz								
31WA1983 /1983**	2017.0053.15	ST 27	1		Lithic Deb	1	interior flake	quartzite								
31WA1983 /1983**	2017.0053.16	ST 33	1		Lithic Deb	1	interior flake	metavolcanic								
31WA1983 /1983**	2017.0053.17	ST 35	1		Lithic Deb	1	interior flake	metavolcanic								
31WA1983 /1983**	2017.0053.18	ST 37	1		Glass	1	container glass		body fragment		colorless					
31WA1983 /1983**	2017.0053.18	ST 37	1		Lithic Deb	1	interior flake	metavolcanic								
31WA1983 /1983**	2017.0053.19	ST 38	1		Lithic Deb	1	interior flake	quartz porphyritic rhyolite								
31WA1983 /1983**	2017.0053.20	ST 43	1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1983 /1983**	2017.0053.20	ST 43	1		Lithic Deb	1	interior flake	quartz								
31WA1983 /1983**	2017.0053.20	ST 43	1		Lithic Deb	1	shatter	quartz								
31WA1983 /1983**	2017.0053.21	ST 44	1		Lithic Deb	1	interior flake	metavolcanic								

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31WA1983 /1983**	2017.0053.22	ST 46	3		H Ceram	1	whiteware		body fragment		white			1830 - present	Miller et al. 2000	
31WA1983 /1983**	2017.0053.23	ST 49	2		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA1983 /1983**	2017.0053.24	ST 60	1		Lithic Deb	1	bifacial thinning flake	quartz								
31WA1983 /1983**	2017.0053.24	ST 60	1		Lithic Deb	1	decortication flake	metavolcanic								
31WA1983 /1983**	2017.0053.24	ST 60	1		Lithic Deb	3	interior flake	metavolcanic								
31WA1983 /1983**	2017.0053.24	ST 60	1		Lithic Deb	4	interior flake	quartz								
31WA1983 /1983**	2017.0053.25	ST 61	2		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1983 /1983**	2017.0053.26	ST 62	1		Lithic Deb	1	interior flake	quartz								
31WA1983 /1983**	2017.0053.27	TU 01	1 1		Lithic Deb	1	bifacial thinning flake	quartz porphyritic rhyolite								
31WA1983 /1983**	2017.0053.27	TU 01	1 1		Lithic Deb	9	bifacial thinning flake	metavolcanic								
31WA1983 /1983**	2017.0053.27	TU 01	1 1		Lithic Deb	1	flake fragment	aphyric rhyolite								
31WA1983 /1983**	2017.0053.27	TU 01	1 1		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite								

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31WA1983 /1983**	2017.0053.27	TU 01	1 1		Lithic Deb	5	interior flake	metavolcanic								
31WA1983 /1983**	2017.0053.27	TU 01	1 1		Lithic Deb	1	interior flake	quartz porphyritic rhyolite								
31WA1983 /1983**	2017.0053.27	TU 01	1 1		Lithic Deb	1	interior flake	quartz								
31WA1983 /1983**	2017.0053.28	TU 01	1 2		Lithic Deb	1	bifacial thinning flake	quartz								
31WA1983 /1983**	2017.0053.28	TU 01	1 2		Lithic Deb	7	bifacial thinning flake	metavolcanic								
31WA1983 /1983**	2017.0053.28	TU 01	1 2		Lithic Deb	2	interior flake	quartz								
31WA1983 /1983**	2017.0053.28	TU 01	1 2		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA1983 /1983**	2017.0053.28	TU 01	1 2		Lithic Deb	8	interior flake	metavolcanic								
31WA1983 /1983**	2017.0053.29	TU 01	1 3		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite								
31WA1983 /1983**	2017.0053.29	TU 01	1 3		Lithic Deb	3	bifacial thinning flake	metavolcanic								
31WA1983 /1983**	2017.0053.29	TU 01	1 3		Lithic Deb	1	bifacial thinning flake	quartz porphyritic rhyolite								
31WA1983 /1983**	2017.0053.29	TU 01	1 3		Lithic Deb	5	interior flake	metavolcanic								

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31WA1983 /1983**	2017.0053.30	TU 01	2 1		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA1983 /1983**	2017.0053.31	TU 02	1 1		Lithic Deb	2	interior flake	metavolcanic									
31WA1983 /1983**	2017.0053.31	TU 02	1 1		Lithic Deb	1	interior flake	quartz									
31WA1983 /1983**	2017.0053.32	TU 02	2 1		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA1983 /1983**	2017.0053.32	TU 02	2 1		Lithic Deb	2	interior flake	metavolcanic									
31WA1983 /1983**	2017.0053.33	TU 02	2 2		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA1983 /1983**	2017.0053.33	TU 02	2 2		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite									
31WA1983 /1983**	2017.0053.36	TU 03	1	plowscar	Lithic Deb	1	interior flake	metavolcanic									
31WA1983 /1983**	2017.0053.36	TU 03	1	plowscar	Lithic Deb	2	interior flake	quartz									
31WA1983 /1983**	2017.0053.34	TU 03	1 1		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA1983 /1983**	2017.0053.34	TU 03	1 1		Lithic Deb	2	flake fragment	aphyric rhyolite									
31WA1983 /1983**	2017.0053.34	TU 03	1 1		Lithic Deb	3	interior flake	quartz									

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31WA1983 /1983**	2017.0053.34	TU 03	1 1		Lithic Deb	1	interior flake	metavolcanic							
31WA1983 /1983**	2017.0053.34	TU 03	1 1		NA Cer	1	sherd under 2cm max dimension	angular quartz temper					indt		spalled/no intact surfaces
31WA1983 /1983**	2017.0053.35	TU 03	1 2		Lithic Biface	1	point	quartz	base/lower midsection				Savannah River Stemmed		BW16mm
31WA1983 /1983**	2017.0053.35	TU 03	1 2		Lithic Deb	2	bifacial thinning flake	metavolcanic							
31WA1983 /1983**	2017.0053.35	TU 03	1 2		Lithic Deb	1	bifacial thinning flake	quartz							
31WA1983 /1983**	2017.0053.35	TU 03	1 2		Lithic Deb	1	interior flake	metavolcanic							
31WA1983 /1983**	2017.0053.35	TU 03	1 2		Lithic Deb	3	interior flake	quartz							
31WA1983 /1983**	2017.0053.37	TU 03	2 1		Glass	1	window glass				aqua				
31WA1983 /1983**	2017.0053.38	TU 04	1 1		Glass	1	container glass		finish		amethyst		solarized/ manganese dioxide decolorized	1820s - 1930s Lindsey 2017 (most common 1890 - 1920)	
31WA1983 /1983**	2017.0053.38	TU 04	1 1		H Misc	1	indt	metal	fragment			corroded			
31WA1983 /1983**	2017.0053.39	TU 04	1 2		Glass	1	window glass				aqua				
31WA1985 /1985**	2017.0054.01	General Surface	surf		Lithic Deb	1	interior flake	quartz							

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31WA1985 /1985**	2017.0054.02	SF 01	surf		Lithic Biface	1	point	quartz	midsection/portion of base				Savannah River Stemmed				ML(70mm), MT14mm
31WA1985 /1985**	2017.0054.03	ST 01	1		H Ceram	1	whiteware		body fragment		white			1830 - present	Miller et al. 2000		
31WA1985 /1985**	2017.0054.03	ST 01	1		Lithic Deb	1	interior flake	metavolcanic									
31WA1985 /1985**	2017.0054.04	ST 02	1		Lithic Deb	1	interior flake	quartz									
31WA1985 /1985**	2017.0054.05	ST 03	1		Lithic Deb	1	interior flake	quartzite									
31WA1985 /1985**	2017.0054.05	ST 03	1		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA1985 /1985**	2017.0054.06	ST 04	2		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite									
31WA1985 /1985**	2017.0054.06	ST 04	2		Lithic Deb	3	interior flake	metavolcanic									
31WA1985 /1985**	2017.0054.06	ST 04	2		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA1985 /1985**	2017.0054.07	ST 06	2		Lithic Deb	1	interior flake	quartz									
31WA1985 /1985**	2017.0054.08	ST 07	2		Lithic Deb	3	interior flake	metavolcanic									
31WA1985 /1985**	2017.0054.09	ST 08	2		Glass	1	window glass			heat altered/melte	d aqua						

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31WA1985 /1985**	2017.0054.09	ST 08	2		H Ceram	1	pearlware		rim fragment	blue edged	bluish white and blue		edged	1785-1840	FMNH 2017	
31WA1985 /1985**	2017.0054.10	ST 09	1		Lithic Deb	3	interior flake	aphyric rhyolite								
31WA1985 /1985**	2017.0054.10	ST 09	1		Lithic Deb	1	interior flake	quartz porphyritic rhyolite								
31WA1985 /1985**	2017.0054.11	ST 09	2		Lithic Deb	3	bifacial thinning flake	aphyric rhyolite								
31WA1985 /1985**	2017.0054.11	ST 09	2		Lithic Deb	5	interior flake	aphyric rhyolite								
31WA1985 /1985**	2017.0054.11	ST 09	2		Lithic Deb	3	interior flake	metavolcanic								
31WA1985 /1985**	2017.0054.11	ST 09	2		Lithic Indt	1	indt (possible concretion fragment)									
31WA1985 /1985**	2017.0054.12	ST 10	3		Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite								
31WA1985 /1985**	2017.0054.13	ST 11	2		Lithic Deb	1	interior flake	quartz								
31WA1985 /1985**	2017.0054.14	ST 12	1		Lithic Deb	1	interior flake	quartz								
31WA1985 /1985**	2017.0054.15	ST 14	1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1985 /1985**	2017.0054.16	ST 15	2		Lithic Deb	1	bifacial thinning flake	metavolcanic								

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31WA1985 /1985**	2017.0054.16	ST 15	2		Lithic Deb	2	interior flake	aphyric rhyolite									
31WA1985 /1985**	2017.0054.17	ST 16	2		Lithic Indt	1	fragment	quartzite									
31WA1985 /1985**	2017.0054.18	ST 17	2		Lithic Deb	1	interior flake	quartz									
31WA1985 /1985**	2017.0054.19	ST 18	3		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA1985 /1985**	2017.0054.20	ST 20	1		Lithic Deb	1	interior flake	quartz									
31WA1985 /1985**	2017.0054.21	ST 23	2		Lithic Biface	1	point	aphyric rhyolite	mising tip				Small Triangular			li N N	ke Caraway Triangular, /L(39mm), BW20mm, //T5mm
31WA1985 /1985**	2017.0054.22	ST 26	1		Lithic Deb	1	interior flake	metavolcanic									
31WA1985 /1985**	2017.0054.23	ST 27	1		Lithic Deb	1	interior flake	quartz									
31WA1985 /1985**	2017.0054.24	ST 27	2		Lithic Deb	4	interior flake	quartz									
31WA1985 /1985**	2017.0054.25	ST 28	1		Glass	1	container glass		body fragment		aqua	heat altered/melted					
31WA1985 /1985**	2017.0054.25	ST 28	1		Lithic Deb	1	interior flake	quartzite									
31WA1985 /1985**	2017.0054.26	ST 29	2		Lithic Deb	1	interior flake	metavolcanic									

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31WA1985 /1985**	2017.0054.26	ST 29	2		Lithic Indt	1	unmodified cobble	quartzite									
31WA1985 /1985**	2017.0054.27	ST 34	2		Lithic Biface	: 1	point	indt	missing tip				Savannah River Stemmed				SL17mm, SW30mm, BW14mm, MT11mm
31WA1985 /1985**	2017.0054.27	ST 34	2		Lithic Deb	1	interior flake	quartz									
31WA1985 /1985**	2017.0054.28	ST 35	2		Lithic Deb	1	interior flake	quartz									
31WA1985 /1985**	2017.0054.28	ST 35	2		Lithic Deb	1	interior flake	metavolcanic									
31WA1985 /1985**	2017.0054.29	ST 37	1		Lithic Deb	1	interior flake	metavolcanic									
31WA1985 /1985**	2017.0054.30	ST 46	2		Lithic Deb	1	interior flake	metavolcanic									
31WA1985 /1985**	2017.0054.31	ST 48	1		Brick	1	brick		fragment							18.0 g	
31WA1985 /1985**	2017.0054.31	ST 48	1		Glass	1	container glass		body fragment		opaque white "milk glass"			primarily 1870s - mid- 20th century	Lindsey 2017		
31WA1985 /1985**	2017.0054.31	ST 48	1		Glass	12	container glass		body fragment		colorless						
31WA1985 /1985**	2017.0054.31	ST 48	1		Glass	17	container glass		body fragment		green						
31WA1985 /1985**	2017.0054.32	ST 48	3		Lithic Deb	1	bifacial thinning flake	g quartzite									

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31WA1985 /1985**	2017.0054.33	ST 49	2		Lithic Deb	1	interior flake	quartz								
31WA1985 /1985**	2017.0054.34	ST 50	1		H Ceram	1	whiteware		body fragment		white			1830 - present	Miller et al. 2000	
31WA1985 /1985**	2017.0054.35	ST 50	2		Lithic Deb	3	bifacial thinning flake	metavolcanic								
31WA1985 /1985**	2017.0054.35	ST 50	2		Lithic Deb	1	flake fragment	metavolcanic								
31WA1985 /1985**	2017.0054.35	ST 50	2		Lithic Deb	3	interior flake	quartz								
31WA1985 /1985**	2017.0054.35	ST 50	2		Lithic Deb	1	interior flake	metavolcanic								
31WA1985 /1985**	2017.0054.36	ST 71	2		Lithic Deb	1	interior flake	quartz								
31WA1985 /1985**	2017.0054.36	ST 71	2		NA Cer	1	body sherd	angular quartz temper		indt ext, plain int			probable Yadkin series			
31WA1985 /1985**	2017.0054.37	ST 72	2		H Ceram	1	whiteware		rim fragment	brown hand painted	white and brown	heat altered/melted	hand painted	1830 - present	Miller et al. 2000	
31WA1985 /1985**	2017.0054.38	ST 73	2		Lithic Deb	1	interior flake	metavolcanic								
31WA1985 /1985**	2017.0054.38	ST 73	2		Lithic Deb	1	interior flake	quartz								
31WA1985 /1985**	2017.0054.39	ST 74	2		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite								

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31WA1985 /1985**	2017.0054.39	ST 74	2		Lithic Deb	1	interior flake	metavolcanic								
31WA1985 /1985**	2017.0054.40	ST 77	2		H Ceram	1	whiteware		base/footring fragment		white			1830 - present	Miller et al. 2000	
31WA1985 /1985**	2017.0054.40	ST 77	2		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1985 /1985**	2017.0054.41	ST 79	1		Lithic Deb	1	interior flake	quartz								
31WA1985 /1985**	2017.0054.42	ST 84	1		Lithic Deb	2	interior flake	quartz								
31WA1985 /1985**	2017.0054.43	ST 93	2		Lithic Deb	1	interior flake	quartz								
31WA1985 /1985**	2017.0054.43	ST 93	2		Lithic Deb	1	interior flake	quartz porphyritic rhyolite								
31WA1985 /1985**	2017.0054.44	ST 97	2		Lithic Deb	2	interior flake	metavolcanic								
31WA1985 /1985**	2017.0054.45	ST 97	3		Lithic Deb	4	interior flake	metavolcanic								
31WA1985 /1985**	2017.0054.46	TU 01	2 3		Lithic Deb	2	interior flake	metavolcanic								
31WA1985 /1985**	2017.0054.46	TU 01	2 3		Lithic Deb	1	interior flake	quartz								
31WA1985 /1985**	2017.0054.47	TU 01, Wall Cleaning			Lithic Deb	1	interior flake	metavolcanic								

Site	Accession #	ST/Unit or Fea.	Zone Leve	l Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)	
31WA1985 /1985**	2017.0054.48	TU 02	1 1		Glass	1	container glass		body fragment		gray						
31WA1985 /1985**	2017.0054.48	TU 02	1 1		Lithic Deb	1	interior flake	quartz									
31WA1985 /1985**	2017.0054.49	TU 02	2 2		H Pipe	1	white ball clay, pipe stem		fragment		white						
31WA1985 /1985**	2017.0054.49	TU 02	2 2		Lithic Deb	4	interior flake	quartz									
31WA1985 /1985**	2017.0054.50	TU 02	3 3		Lithic Deb	3	bifacial thinning flake	quartz									
31WA1985 /1985**	2017.0054.50	TU 02	3 3		Lithic Deb	1	decortication flake	quartzite									
31WA1985 /1985**	2017.0054.50	TU 02	3 3		Lithic Deb	4	interior flake	metavolcanic									
31WA1985 /1985**	2017.0054.50	TU 02	3 3		Lithic Deb	3	interior flake	aphyric rhyolite									
31WA1985 /1985**	2017.0054.50	TU 02	3 3		Lithic Deb	7	interior flake	quartz									
31WA1985 /1985**	2017.0054.51	TU 02	3 4		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA1985 /1985**	2017.0054.51	TU 02	3 4		Lithic Deb	1	interior flake	metavolcanic									
31WA1985 /1985**	2017.0054.51	TU 02	3 4		Lithic Deb	5	interior flake	quartz									

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA1985 /1985**	2017.0054.52	TU 02	3 5		Lithic Deb	1	bifacial thinning flake	quartz								
31WA1985 /1985**	2017.0054.52	TU 02	3 5		Lithic Deb	1	interior flake	quartz								
31WA1985 /1985**	2017.0054.53	TU 02	3 6		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1985 /1985**	2017.0054.53	TU 02	3 6		Lithic Deb	1	interior flake	metavolcanic								
31WA1985 /1985**	2017.0054.54	TU 03	1 1		H Ceram	1	pearlware		body fragment	blue transfer printed	bluish white and blue		transfer printed	1784-1840	FMNH 2017	
31WA1985 /1985**	2017.0054.55	TU 03	2 1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1985 /1985**	2017.0054.55	TU 03	2 1		Lithic Deb	1	bifacial thinning flake	quartz								
31WA1985 /1985**	2017.0054.55	TU 03	2 1		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA1985 /1985**	2017.0054.55	TU 03	2 1		Lithic Deb	2	interior flake	metavolcanic								
31WA1985 /1985**	2017.0054.56	TU 03	3 1		Lithic Deb	1	interior flake	quartz								
31WA1985 /1985**	2017.0054.56	TU 03	3 1		Lithic Deb	1	interior flake	metavolcanic								
31WA1985 /1985**	2017.0054.56	TU 03	3 1		Lithic Indt	1	unmodified tabular rock	quartzite								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Coun	t Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA1985 /1985**	2017.0054.57	TU 03	3 2		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite								
31WA1985 /1985**	2017.0054.57	TU 03	3 2		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA1985 /1985**	2017.0054.57	TU 03	3 2		Lithic Deb	1	interior flake	quartz								
31WA1985 /1985**	2017.0054.57	TU 03	3 2		Lithic Deb	1	interior flake	metavolcanic								
31WA1985 /1985**	2017.0054.58	TU 04	2 1		H Ceram	1	pearlware		rim fragment	blue edged, curved impressed lines, unscalloped rim	bluish white and blue		edged	1785-1830	FMNH 2017	
31WA1985 /1985**	2017.0054.58	TU 04	2 1		H Ceram	1	whiteware		body fragment		white			1830 - present	Miller et al. 2000	
31WA1985 /1985**	2017.0054.59	TU 04	3 1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1985 /1985**	2017.0054.60	TU 04	3 2		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1985 /1985**	2017.0054.60	TU 04	3 2		Lithic Deb	1	interior flake	quartz								
31WA1986 **		ST 03	1		H Ceram	1	white granite (ironstone)		rim fragment	red transfer printed	I white and red		transfer printed	1830s - early 20th century	JPPM 2017	field id - not retained
31WA1988	2017.0062.01	ST 01	2		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1988	2017.0062.01	ST 01	2		Lithic Deb	2	interior flake	metavolcanic								

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31WA1988	2017.0062.02	ST 07	2		Lithic Deb	2	interior flake	metavolcanic									
31WA1989	2017.0063.01	General Surface	surf		Lithic Biface	1	middle stage biface	quartz									
31WA1989	2017.0063.01	General Surface	surf		Lithic Deb	1	interior flake	quartzite									
31WA1989	2017.0063.01	General Surface	surf		Lithic Deb	26	interior flake	quartz									
31WA1990	2017.0064.01	ST 01	1		Lithic Deb	1	bifacial thinning flake	g quartz									
31WA1991 /1991**	2017.0065.01	General Surface	surf		Faunal	1	antler tine fragment (modern?)									li c	kely modern given surface ontext
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	bottle/vial		complete	stippled base	amber					n	nost likely medicinal, small nouth external thread finish
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	2	canning jar lid insert		lid insert fragment		opaque white "milk glass"			post-1869	Miller et al. 2000		
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		base fragment	embossed	aqua						
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		finish fragment		blue					lı fi	rge mouth external thread nish
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		finish fragment		cobalt blue					lá fi	rge mouth external thread nish
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		body fragment	embossed	amber						

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Commo (g)	ent
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	2	container glass		base/body fragment		opaque white "milk glass"			primarily 1870s - mid- 20th century	Lindsey 2017		
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	4	container glass		body fragment		amethyst		solarized/ manganese dioxide decolorized	1820s - 1930s (most common 1890 - 1920)	Lindsey 2017		
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	3	container glass		base fragment	embossed	green aqua		Coca-Cola bottle				
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		base fragment		colorless						
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		body fragment		colorless						
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		body fragment	painted red dots	colorless						
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	2	container glass		body fragment	ribbing	colorless						
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		body fragment		cobalt blue	heat altered/melted					
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		finish fragment		opaque white "milk glass"			primarily 1870s - mid- 20th century	Lindsey 2017	wide mot finish	ith external thread
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		base		cobalt blue						
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		base fragment	embossed	green aqua						
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	2	container glass		finish fragment		"Ball" blue		canning jar	early-mid 20th c.	Lindsey 2017	wide mo finish	uth external thread

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight (g)	Comment
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	3	container glass		base fragment		"Ball" blue		canning jar	early-mid 20th c.	Lindsey 2017		
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		base fragment		aqua						
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		finish fragment		colorless						wide mouth external thread finish
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		indt fragment		colorless	heat altered/melted					
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		base fragment		opaque white "milk glass"						
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		body fragment		"Ball" blue		canning jar	early-mid 20th c.	Lindsey 2017		
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	2	container glass		base	molded	opaque white "milk glass"		cosmetic jar	primarily 1870s - mid- 20th century	Lindsey 2017		
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		base fragment	molded	opaque white "milk glass"		cosmetic jar	primarily 1870s - mid- 20th century	Lindsey 2017		
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		body fragment	molded	opaque white "milk glass"		cosmetic jar	primarily 1870s - mid- 20th century	Lindsey 2017		
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		finish		amethyst		solarized/ manganese dioxide decolorized	1820s - 1930s (most common 1890 - 1920)	Lindsey 2017		collared ring finish
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		base fragment	stippled	colorless						
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		rim fragment		opaque white "milk glass"			primarily 1870s - mid- 20th century	Lindsey 2017		

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cour	t Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight (g)	Comment
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	9	container glass		base fragment	embossed	colorless						
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		finish		colorless		machine made	1920s - present	t Lindsey 2017		small mouth external thread finish
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		body fragment		opaque white "milk glass"			primarily 1870s - mid- 20th century	Lindsey 2017		
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	2	container glass		base fragment		amethyst		solarized/ manganese dioxide decolorized	1820s - 1930s (most common 1890 - 1920)	Lindsey 2017		
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	2	container glass		finish		amethyst		solarized/ manganese dioxide decolorized	1890s-1920s	Lindsey 2017		straight brandy or wine finish
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	2	container glass		body fragment		cobalt blue						
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	container glass		finish		amethyst		solarized/ manganese dioxide decolorized	1820s - 1930s (most common 1890 - 1920)	Lindsey 2017		patent/extract/flat finish
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	table glass		rim fragment	molded	opaque jade green "milk glass"		Fire-King Jade-it	e 1940s - 1976	Collectors Weekly 2016		
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	2	table glass		body fragment	molded	light amethyst		solarized/ manganese dioxide decolorized	1820s - 1930s (most common 1890 - 1920)	Lindsey 2017		
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	6	table glass		base fragment	molded	colorless						
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	5	table glass		body fragment		opaque jade green "milk glass"		Fire-King Jade-it	e 1940s - 1976	Collectors Weekly 2016		
31WA1991 /1991**	2017.0065.01	General Surface	surf		Glass	1	table glass		body fragment	molded	light pink		solarized/ manganese dioxide decolorized	1820s - 1930s (most common 1890 - 1920)	Lindsey 2017		

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31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	coarse earthenware		body fragment		red		red bodied			
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	earthenware		base/body fragment	blue glazed, molded	blue and buff		McCoy type			
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	earthenware		rim fragment	blue glazed, molded	blue and buff		McCoy type			
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	earthenware		body fragment	brown glazed, molded	brown and buff		McCoy type			
31WA1991 /1991**	2017.0065.01	General Surface	surf	adjacent to TU 02 outside APE	H Ceram	1	pearlware		body fragment		bluish white			1780-1840	Noel Hume 1970	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	pearlware		rim fragment	blue edged, incised curved lines	bluish white and blue		edged	1785-1840	FMNH 2017	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	3	porcelain		body fragment	pink and green floral decal	white, pink, and green		decal decorated/ "decalcomania"	1890s - 1950s	JPPM 2017	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	porcelain		rim fragment	green decal	white and green		decal decorated/ "decalcomania"	1890s - 1950s	JPPM 2017	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	porcelain		rim fragment	green horizontal lines around rim	white and green		transfer printed			
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	2	porcelain		base/footring fragment		white					
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	3	porcelain		rim fragment	molded	white					
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	2	porcelain		rim fragment		white					

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31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	porcelain		base fragment		white		K.T. & K. semi- vitreous	1888-1931	Vodrey 2013 http://www.themuseu mofceramics.org/lotus. html		maker's mark "TREOUS PORCE" and "K.T.&K. CO. 3010"
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	porcelain		base/footring fragment	green transfer printed line	white and green						
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	stoneware (North American)		rim fragment	Bristol glazed	white and buff		buff bodied				
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	stoneware (North American)		base/body fragment	Albany-slipped int, Bristol-glazed ext	white and black		Albany Bristol	1890s-20th c.	Stelle 2001 (http://virtual.parkland .edu/lstelle1/len/archgu ide/documents/arcguid e.htm)		
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	stoneware (North American)		rim fragment	brown glazed, molded	brown and buff		McCoy type				
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	stoneware (North American)		base fragment	Albany-slipped int, Bristol-glazed ext	white and black		Albany Bristol	1890s-20th c.	Stelle 2001 (http://virtual.parkland .edu/lstelle1/len/archgu ide/documents/arcguid e.htm)		
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	stoneware (North American)		body fragment		buff		buff bodied				
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	7	stoneware (North American)		body fragment	Albany-slipped int, Bristol-glazed ext	white and black		Albany Bristol	1890s-20th c.	Stelle 2001 (http://virtual.parkland .edu/lstelle1/len/archgu ide/documents/arcguid e.htm)		
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	stoneware (North American)		body fragment	Albany-slipped int, Bristol-glazed ext	dark brown and white		Albany Bristol	1890s-20th c.	Stelle 2001 (http://virtual.parkland .edu/lstelle1/len/archgu ide/documents/arcguid e.htm)		
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	2	stoneware (North American)		rim fragment	Albany-slipped int, Bristol-glazed ext	white and black		Albany Bristol	1890s-20th c.	Stelle 2001 (http://virtual.parkland .edu/lstelle1/len/archgu ide/documents/arcguid e.htm)		
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	2	white granite (ironstone)		base/footring fragment		white			1830s - early 20th century	JPPM 2017		
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	whiteware		base fragment		white			1830-present	Miller et al. 2000		maker's mark "U.S.A."

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31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	whiteware		handle fragment	some brown glaze	white and brown			1830-present	Miller et al. 2000	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	whiteware		body fragment	pink glazed	white and pink			1830-present	Miller et al. 2000	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	whiteware		base fragment	blue and green hand painted	white, green, and blue		hand painted	1830-present	Miller et al. 2000	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	whiteware		body fragment	black and orange transfer printed	white, black, and orange		transfer printed	1830-present	Miller et al. 2000	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	whiteware		body fragment	green and red transfer printed	white, green, and red		transfer printed	1830-present	Miller et al. 2000	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	whiteware		rim fragment	black transfer printed	white and black		transfer printed	1830-present	Miller et al. 2000	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	whiteware		base fragment	turquoise glaze	turquoise		fiestaware	1937 - present	https://www.fiestafact orydirect.com/t- aboutfiesta.aspx	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	4	whiteware		body fragment		white			1830-present	Miller et al. 2000	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	2	whiteware		rim fragment	green decal and molded	white and green		decal decorated/ "decalcomania"	1890s - 1950s	JPPM 2017	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	whiteware		body fragment	pink and green floral decal	white, pink, and green		decal decorated/ "decalcomania"	1890s - 1950s	JPPM 2017	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	2	whiteware		base/footring fragment	pink and green floral decal	white, pink, and green		decal decorated/ "decalcomania"	1890s - 1950s	JPPM 2017	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	2	whiteware		rim fragment	molded	white			1830-present	Miller et al. 2000	

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31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	whiteware		body fragment	brown hand painted line	white and brown		hand painted	1830-present	Miller et al. 2000	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	3	whiteware		body fragment	blue and green hand painted	white, blue, and green		hand painted	1830s-present	Miller et al. 2000	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	whiteware		body fragment		white	heat altered		1830-present	Miller et al. 2000	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	whiteware		rim fragment	pink and green floral decal	white, pink, and green		decal decorated/ "decalcomania"	1890s - 1950s	JPPM 2017	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	whiteware		rim fragment	blue glazed	blue		fiestaware	1937 - present	https://www.fiestafact orydirect.com/t- aboutfiesta.aspx	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	whiteware		base/footring fragment	blue glazed	blue		fiestaware	1937 - present	https://www.fiestafact orydirect.com/t- aboutfiesta.aspx	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	4	whiteware		base/footring fragment		white			1830-present	Miller et al. 2000	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	whiteware		rim fragment	pink glazed around rim	white and pink	:		1830-present	Miller et al. 2000	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	whiteware		rim fragment	red glazed	red		fiestaware	1937 - present	https://www.fiestafact orydirect.com/t- aboutfiesta.aspx	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	whiteware		rim fragment	green edged, molded	white and green		edged	1830-present	Miller et al. 2000	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	whiteware		body fragment	green glazed exterior	white and green			1830-present	Miller et al. 2000	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	4	whiteware		rim fragment		white			1830-present	Miller et al. 2000	

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cour	t Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	4	whiteware		body fragment	blue open sponged	white and blue		sponged	1860-1935	JPPM 2017	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	whiteware		rim fragment	blue edged, molded	white and blue		edged	1830-present	Miller et al. 2000	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	whiteware		rim fragment	brown hand painted	white and brown		hand painted	1830-present	Miller et al. 2000	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Ceram	1	whiteware		body fragment	yellow glazed	yellow		fiestaware	1937 - present	https://www.fiestafact orydirect.com/t- aboutfiesta.aspx	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Misc	1	doll appendage	porcelain	fragment		white					
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Misc	1	door knob	porcelain	complete		white					
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Misc	2	door knob	porcelain	fragment		white					
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Misc	1	indt	plastic	fragment		black					
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Misc	1	marble	glass	complete		blue and white			1901 - present	JPPM 2017	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Misc	1	marble	glass	fragment		green and white			1901 - present	JPPM 2017	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Misc	1	marble	glass	complete		green and white			1901 - present	JPPM 2017	
31WA1991 /1991**	2017.0065.01	General Surface	surf		H Pers	1	button	copper or brass	complete			corroded				

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31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Biface	5	biface fragment	quartz									
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Biface	1	indt biface base	metavolcanic									possible crude triangular point or indeterminate lanceolate form
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Biface	5	late stage biface	metavolcanic									
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Biface	1	late stage biface	plagioclase- quartz porphyritic rhyolite									
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Biface	2	late stage biface	quartz									
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Biface	1	mid- to late- stage biface	quartz									
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Biface	1	point	quartz	base/midsection				Small Savannah River Stemmed				ST12mm, SW23mm, BW15mm, MT9mm
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Biface	2	point	metavolcanic				tip only	indt				
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Biface	1	point	plagioclase- quartz porphyritic rhyolite	missing tips				Morrow Mountain II Stemmed				ML(62mm), SL15mm, SW22mm, MT11mm
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Biface	2	point	metavolcanic	missing tips				Morrow Mountain II Stemmed				ML(54mm), SL17mm, SW21mm, MT12mm; ML(45mm), SL19mm, S(21mm),MT10mm
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Biface	1	point	metavolcanic	incomplete thinning across faces				indeterminate stemmed point				ML62mm, SL10mm, SW22mm, BW(12mm), MT11mm
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Biface	1	point	quartz porphyritic rhyolite					Big Sandy Side Notched				lacks characteristic squared basal ears, ML(67mm), SL12mm, SW27mm, BW25mm, MT11mm

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight (g)	Comment
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Biface	1	point	plagioclase- quartz porphyritic rhyolite	incomplete thinning across faces				possible Small Savannah River Stemmed				crude, ML(80mm), SL11mm, SW24mm, BW16mm, MT14mm
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Biface	2	point	quartz				tip only	indt				
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Biface	1	point	slate-like materia	l complete				Guilford Lanceolate				ML69mm, MW26mm, MT8mm
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Biface	1	point	quartz	missing tip, heavily resharpened blade				indt stemmed point				squarish stem, SL14mm, Bw17mm, MT12mm
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Biface	1	point	plagioclase porphyritic rhyolite	missing tip				contracting pointed stem similar to Piscataway Stemmed due to				too narrow for Morrow Mountain I; ML(69mm), SL19mm, SW22mm, MT10mm
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Biface	1	point	quartz	resharpened blade				indt stemmed point				square stem, ML49mm, SL15mm, SW(24mm), BW19mm, MT11mm
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Biface	1	point	quartz	missing tip, blade appears resharpened				indt eared point/eared triangle?				BW24mm, MT6mm
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Deb	7	bifacial thinning flake	plagioclase porphyritic rhyolite									
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Deb	1	bifacial thinning flake	quartz porphyritic rhyolite									
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Deb	7	bifacial thinning flake	aphyric rhyolite									
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Deb	8	bifacial thinning flake	quartz									
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Deb	21	bifacial thinning flake	metavolcanic									

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Coun	t Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Deb	1	bifacial thinning flake	plagioclase- quartz porphyritic rhyolite								
31WA1991 /1991**	2017.0065.01	General Surface	surf	adjacent to TU 02 outside APE	Lithic Deb	1	decortication flake	quartzite								
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Deb	1	flake fragment	quartz porphyritic rhyolite								
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Deb	2	flake fragment	metavolcanic								
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Deb	2	interior flake	quartzite								
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Deb	8	interior flake	plagioclase porphyritic rhyolite								
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Deb	13	interior flake	plagioclase- quartz porphyritic rhyolite								
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Deb	12	interior flake	aphyric rhyolite								
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Deb	5	interior flake	quartz porphyritic rhyolite								
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Deb	61	interior flake	metavolcanic								
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Deb	124	interior flake	quartz								
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Deb	7	shatter	quartz								

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31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Deb	1	shatter	quartzite								
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Deb	1	unmodified tabular rock	quartzite								
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Indt	1	fragment	quartz								
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Indt	4	fragment	metavolcanic								
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Tool	5	retouched flake	quartz								
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Tool	1	retouched flake	plagioclase porphyritic rhyolite								
31WA1991 /1991**	2017.0065.01	General Surface	surf		Lithic Tool	1	retouched flake	plagioclase- quartz porphyritic rhyolite								
31WA1991 /1991**	2017.0065.02	ST 01	2		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1991 /1991**	2017.0065.02	ST 01	2		Lithic Deb	1	flake fragment	aphyric rhyolite								
31WA1991 /1991**	2017.0065.02	ST 01	2		Lithic Deb	2	interior flake	quartz								
31WA1991 /1991**	2017.0065.02	ST 01	2		Lithic Deb	1	interior flake	metavolcanic								
31WA1991 /1991**	2017.0065.03	ST 02	2		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite								

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31WA1991 /1991**	2017.0065.04	ST 03	1		Glass	1	canning jar lid insert		lid insert fragment		opaque white "milk glass"			post-1869	Miller et al. 2000	
31WA1991 /1991**	2017.0065.05	TU 01	1 1		Lithic Deb	1	bifacial thinning flake	quartz								
31WA1991 /1991**	2017.0065.05	TU 01	1 1		Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite								
31WA1991 /1991**	2017.0065.05	TU 01	1 1		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite								
31WA1991 /1991**	2017.0065.05	TU 01	1 1		Lithic Deb	4	bifacial thinning flake	metavolcanic								
31WA1991 /1991**	2017.0065.05	TU 01	1 1		Lithic Deb	5	flake fragment	metavolcanic								
31WA1991 /1991**	2017.0065.05	TU 01	1 1		Lithic Deb	6	interior flake	aphyric rhyolite								
31WA1991 /1991**	2017.0065.05	TU 01	1 1		Lithic Deb	20	interior flake	metavolcanic								
31WA1991 /1991**	2017.0065.05	TU 01	1 1		Lithic Deb	6	interior flake	quartz								
31WA1991 /1991**	2017.0065.05	TU 01	1 1		Lithic Deb	1	interior flake	quartz porphyritic rhyolite								
31WA1991 /1991**	2017.0065.05	TU 01	1 1		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite								
31WA1991 /1991**	2017.0065.06	TU 01	2 1		Lithic Deb	1	bifacial thinning flake	metavolcanic								

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31WA1991 /1991**	2017.0065.06	TU 01	2 1		Lithic Deb	1	bifacial thinning flake	plagioclase- quartz porphyritic rhyolite								
31WA1991 /1991**	2017.0065.06	TU 01	2 1		Lithic Deb	6	interior flake	metavolcanic								
31WA1991 /1991**	2017.0065.06	TU 01	2 1		Lithic Deb	2	interior flake	quartz								
31WA1991 /1991**	2017.0065.07	TU 01	3 1		Lithic Deb	2	bifacial thinning flake	metavolcanic								
31WA1991 /1991**	2017.0065.07	TU 01	3 1		Lithic Deb	1	flake fragment	metavolcanic								
31WA1991 /1991**	2017.0065.07	TU 01	3 1		Lithic Deb	5	interior flake	metavolcanic								
31WA1991 /1991**	2017.0065.08	TU 01	S wall fall		Lithic Deb	1	interior flake	metavolcanic								
31WA1991 /1991**	2017.0065.09	TU 02	1 1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1991 /1991**	2017.0065.09	TU 02	1 1		Lithic Deb	7	interior flake	metavolcanic								
31WA1991 /1991**	2017.0065.09	TU 02	1 1		Lithic Deb	2	interior flake	quartz								
31WA1991 /1991**	2017.0065.09	TU 02	1 1		Lithic Indt	1	unmodified pebble	quartzite								
31WA1991 /1991**	2017.0065.10	TU 02	2 1		Lithic Deb	2	bifacial thinning flake	plagioclase- quartz porphyritic rhyolite								
Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cour	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
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31WA1991 /1991**	2017.0065.10	TU 02	2 1		Lithic Deb	1	flake fragment	metavolcanic								
31WA1991 /1991**	2017.0065.10	TU 02	2 1		Lithic Deb	4	interior flake	metavolcanic								
31WA1991 /1991**	2017.0065.11	TU 02	2 1	plowscars	Lithic Deb	1	interior flake	quartzite								
31WA1991 /1991**	2017.0065.11	TU 02	2 1	plowscars	Lithic Deb	1	interior flake	metavolcanic								
31WA1991 /1991**	2017.0065.11	TU 02	2 1	plowscars	Lithic Deb	2	interior flake	plagioclase- quartz porphyritic rhyolite								
31WA1991 /1991**	2017.0065.10	TU 02	2 1		Lithic Deb	3	interior flake	plagioclase porphyritic rhyolite								
31WA1991 /1991**	2017.0065.10	TU 02	2 1		Lithic Deb	1	interior flake	quartz								
31WA1991 /1991**	2017.0065.10	TU 02	2 1		Lithic Deb	2	interior flake	quartz porphyritic rhyolite								
31WA1991 /1991**	2017.0065.12	TU 02	3 1		Lithic Deb	1	interior flake	metavolcanic								
31WA1991 /1991**	2017.0065.13	TU 02	3 2		Lithic Deb	3	interior flake	quartz								
31WA1991 /1991**	2017.0065.13	TU 02	3 2		Lithic Deb	2	interior flake	metavolcanic								
31WA1991 /1991**	2017.0065.14	TU 02	4 1		Lithic Deb	1	bifacial thinning flake	quartzite								

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31WA1991 /1991**	2017.0065.15	TU 03	1		Lithic Deb	1	flake fragment	metavolcanic								
31WA1991 /1991**	2017.0065.15	TU 03	1		Lithic Deb	1	flake fragment	aphyric rhyolite								
31WA1991 /1991**	2017.0065.15	TU 03	1		Lithic Deb	2	interior flake	metavolcanic								
31WA1991 /1991**	2017.0065.15	TU 03	1		Lithic Deb	1	interior flake	quartz								
31WA1991 /1991**	2017.0065.16	TU 04	1 1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1991 /1991**	2017.0065.16	TU 04	1 1		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA1991 /1991**	2017.0065.17	TU 05	1 1		H Ceram	1	whiteware		body fragment	blue open sponged	d white and blue		sponged	1860-1935	JPPM 2017	
31WA1991 /1991**	2017.0065.18	TU 06	1		Glass	1	container glass		base fragment	embossed	aqua					
31WA1991 /1991**	2017.0065.18	TU 06	1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1991 /1991**	2017.0065.18	TU 06	1		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA1991 /1991**	2017.0065.19	TU 07	1		Glass	4	container glass		body fragment		colorless					
31WA1991 /1991**	2017.0065.19	TU 07	1		Glass	1	container glass		body fragment		light amethyst		solarized/ manganese dioxide decolorized	1820s - 1930s (most common 1890 - 1920)	Lindsey 2017	

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31WA1991 /1991**	2017.0065.19	TU 07	1		Glass	1	container glass		finish fragment		colorless			1910 - present	Lindsey 2017	crown finish
31WA1991 /1991**	2017.0065.19	TU 07	1		Glass	1	container glass		body fragment		aqua					
31WA1991 /1991**	2017.0065.19	TU 07	1		Glass	1	container glass		body fragment		opaque white "milk glass"			primarily 1870s - mid- 20th century	Lindsey 2017	
31WA1991 /1991**	2017.0065.19	TU 07	1		Glass	1	container glass		base fragment		colorless					
31WA1991 /1991**	2017.0065.19	TU 07	1		H Fasten/Tool	1	nail	iron	complete			corroded	indeterminate			
31WA1991 /1991**	2017.0065.20	TU 07	2 1		Glass	1	container glass		body fragment		aqua					
31WA1991 /1991**	2017.0065.20	TU 07	2 1		Glass	1	container glass		body fragment		green					
31WA1991 /1991**	2017.0065.20	TU 07	2 1		Lithic Deb	3	interior flake	quartz								
31WA1991 /1991**	2017.0065.20	TU 07	2 1		Lithic Deb	1	shatter	quartz								
31WA1991 /1991**	2017.0065.21	TU 07	3 1		Lithic Deb	1	interior flake	quartz								
31WA1991 /1991**	2017.0065.22	TU 08	2	plow scar of Zone 1	Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite								
31WA1991 /1991**	2017.0065.24	TU 09	1 1		Lithic Deb	1	interior flake	quartz porphyritic rhyolite								

Site	Accession #	ST/Unit or Fea.	Zone Leve	l Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA1991 /1991**	2017.0065.24	TU 09	1 1		Lithic Deb	2	interior flake	plagioclase porphyritic rhyolite								
31WA1991 /1991**	2017.0065.24	TU 09	1 1		Lithic Deb	2	interior flake	metavolcanic								
31WA1991 /1991**	2017.0065.24	TU 09	1 1		Lithic Deb	1	interior flake	quartz								
31WA1991 /1991**	2017.0065.24	TU 09	1 1		Lithic Deb	4	interior flake	aphyric rhyolite								
31WA1991 /1991**	2017.0065.25	TU 09	2 1		Lithic Deb	1	interior flake	quartz								
31WA1991 /1991**	2017.0065.23	TU 09	surf	NE quad	Lithic Deb	1	interior flake	metavolcanic								
31WA1991 /1991**	2017.0065.26	TU 10	1 1		Glass	1	container glass		finish fragment		aqua					patent/extract/flat finish
31WA1991 /1991**	2017.0065.27	TU 11	1		Glass	1	container glass		finish fragment		colorless					
31WA1991 /1991**	2017.0065.27	TU 11	1		Glass	2	container glass		body fragment		light amethyst		solarized/ manganese dioxide decolorized	1820s - 1930s (most common 1890 - 1920)	Lindsey 2017	
31WA1991 /1991**	2017.0065.27	TU 11	1		Glass	1	container glass		body fragment		aqua					
31WA1991 /1991**	2017.0065.27	TU 11	1		Glass	18	container glass		body fragment		colorless					
31WA1991 /1991**	2017.0065.27	TU 11	1		H Ceram	1	whiteware		rim fragment		white			1830-present	Miller et al. 2000	

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31WA1991 /1991**	2017.0065.27	TU 11	1		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite								
31WA1991 /1991**	2017.0065.27	TU 11	1		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA1992	2017.0066.01	General Surface	surf		Lithic Deb	2	bifacial thinning flake	metavolcanic								
31WA1992	2017.0066.01	General Surface	surf		Lithic Deb	2	bifacial thinning flake	plagioclase porphyritic rhyolite								
31WA1992	2017.0066.01	General Surface	surf		Lithic Deb	2	interior flake	quartz								
31WA1992	2017.0066.01	General Surface	surf		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA1992	2017.0066.01	General Surface	surf		Lithic Deb	1	shatter	quartz								
31WA1993 **	2017.0067.01	General Surface	surf		Glass	1	container glass		base fragment		aqua					
31WA1993 **	2017.0067.01	General Surface	surf		Glass	1	container glass		base fragment		amber					
31WA1993 **	2017.0067.01	General Surface	surf		Glass	1	container glass		body fragment		opaque white "milk glass"	heat altered/melted		primarily 1870s - mid- 20th century	Lindsey 2017	
31WA1993 **	2017.0067.01	General Surface	surf		Glass	1	container glass		body fragment		amethyst	heat altered/melted	solarized/ manganese dioxide decolorized	1820s - 1930s (most common 1890 - 1920)	Lindsey 2017	
31WA1993 **	2017.0067.01	General Surface	surf		H Ceram	2	pearlware		base/footring fragment		bluish white	heat altered/melted		1780-1840	Noel Hume 1970	

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cour	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA1993 **	2017.0067.01	General Surface	surf		H Ceram	4	refined earthenware		rim fragment		white	heat altered/melted				burned beyond identification
31WA1993 **	2017.0067.01	General Surface	surf		H Ceram	12	refined earthenware		body fragment		white	heat altered/melted				burned beyond identification
31WA1993 **	2017.0067.01	General Surface	surf		H Ceram	1	stoneware (North American)		body fragment	gray glazed exterior	brown and gra	ay heat altered/melted	gray bodied			
31WA1993 **	2017.0067.01	General Surface	surf		H Ceram	16	white granite (ironstone)		base/footring fragment		white	heat altered/melted		1830s - early 20th century	JPPM 2017	
31WA1993 **	2017.0067.01	General Surface	surf		H Ceram	35	white granite (ironstone)		rim fragment		white	heat altered/melted		1830s - early 20th century	JPPM 2017	
31WA1993 **	2017.0067.01	General Surface	surf		H Ceram	45	white granite (ironstone)		body fragment		white	heat altered/melted		1830s - early 20th century	JPPM 2017	
31WA1993 **	2017.0067.01	General Surface	surf		H Ceram	1	white granite (ironstone)		handle fragment		white			1830s - early 20th century	JPPM 2017	
31WA1993 **	2017.0067.01	General Surface	surf		H Ceram	6	whiteware		body fragment		white	heat altered/melted		1830-present	Miller et al. 2000	
31WA1993 **	2017.0067.01	General Surface	surf		H Ceram	3	whiteware		base/footring fragment		white	heat altered/melted		1830-present	Miller et al. 2000	
31WA1994	2017.0068.01	General Surface	surf		H Ceram	1	porcelain		body fragment	brown glazed	brown					
31WA1994	2017.0068.01	General Surface	surf		Lithic Deb	4	bifacial thinning flake	plagioclase porphyritic rhyolite								
31WA1994	2017.0068.01	General Surface	surf		Lithic Deb	4	interior flake	quartz								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight (g)	Comment
31WA1994	2017.0068.01	General Surface	surf		Lithic Deb	2	interior flake	plagioclase porphyritic rhyolite									
31WA1994	2017.0068.02	ST 01	1		Lithic Deb	1	interior flake	quartz									
31WA1995	2017.0069.01	General Surface	surf		Lithic Biface	: 1	late stage biface	plagioclase- quartz porphyritic rhyolite									
31WA1995	2017.0069.01	General Surface	surf		Lithic Biface	: 1	point	aphyric rhyolite				tip missing	Kirk Stemmed		Coe (1964)		ML(63mm), SL9m, SW21mm, BW16m,, MT8mm
31WA1995	2017.0069.01	General Surface	surf		Lithic Biface	: 1	point	aphyric rhyolite				complete	Morrow Mountain II Stemmed				ML40mm, SL10mm, SW15mm, MT6mm
31WA1995	2017.0069.01	General Surface	surf		Lithic Deb	2	bifacial thinning flake	metavolcanic									
31WA1995	2017.0069.01	General Surface	surf		Lithic Deb	2	bifacial thinning flake	quartz									
31WA1995	2017.0069.01	General Surface	surf		Lithic Deb	2	flake fragment	metavolcanic									
31WA1995	2017.0069.01	General Surface	surf		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite									
31WA1995	2017.0069.01	General Surface	surf		Lithic Deb	44	interior flake	quartz									
31WA1995	2017.0069.01	General Surface	surf		Lithic Deb	5	interior flake	metavolcanic									
31WA1995	2017.0069.01	General Surface	surf		Lithic Tool	1	retouched flake	metavolcanic									

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight (g)	Comment
31WA1996	2017.0070.01	ST 01	1		Lithic Deb	1	interior flake	quartz									
31WA1997 /1997**	2017.0071.01	General Surface	surf		Glass	1	container glass		finish fragment		amethyst		solarized/ manganese dioxide decolorized	1820s - 1930s (most common 1890 - 1920)	Lindsey 2017		patent/extract/flat finish
31WA1997 /1997**	2017.0071.01	General Surface	surf		Glass	1	container glass		base fragment		amethyst		solarized/ manganese dioxide decolorized	1820s - 1930s (most common 1890 - 1920)	Lindsey 2017		
31WA1997 /1997**	2017.0071.01	General Surface	surf		Glass	1	container glass		body fragment		opaque white "milk glass"			primarily 1870s - mid- 20th century	Lindsey 2017		
31WA1997 /1997**	2017.0071.01	General Surface	surf		Glass	1	container glass		jar fragment	molded, embossed	opaque white "milk glass"		Woodbury cosmetic	1870 - 1901	http://cosmeticsandski n.com/cosmetic- companies- timeline.php		
31WA1997 /1997**	2017.0071.01	General Surface	surf		Glass	1	container glass		body fragment		aqua						
31WA1997 /1997**	2017.0071.01	General Surface	surf		H Ceram	1	stoneware (North American)		body fragment	salt glazed exterior	r gray		gray bodied				
31WA1997 /1997**	2017.0071.01	General Surface	surf		H Ceram	3	whiteware		body fragment		white			1830 - present	Miller et al. 2000		
31WA1997 /1997**	2017.0071.01	General Surface	surf		H Ceram	2	whiteware		rim fragment		white			1830 - present	Miller et al. 2000		
31WA1997 /1997**	2017.0071.01	General Surface	surf		H Ceram	1	whiteware		body fragment	blue open sponged	white and blue		sponged	1860 - 1935	FMNH 2017		
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Biface	1	biface fragment	metavolcanic									
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Biface	1	mid- to late- stage biface	quartz porphyritic rhyolite									

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight (g)	Comment
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Biface	1	point	quartz				missing tip	Small Triangular				ML(30mm), BW17mm, MT4mm
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Biface	1	point	aphyric rhyolite				tip only	indt				
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Biface	1	point	quartz				blade only	indt				
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Biface	1	point	quartz				base/shoulder area only	Halifax Side Notched				SL8mm, SW22mm, BW16mm, MT7mm
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Biface	1	point	metavolcanic				base and part of midesection onl	f Stanly Stemmed? ly				notched square stem, with slight curvature to shoulder area; difficult to tell type without blade
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Biface	1	point	aphyric rhyolite				tip missing	Halifax Side Notched				ML32mm, SL11mm, SW20mm, BW16mm, MT6mm
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Biface	1	point	metavolcanic				part of base and shoulder missin	l indt (stemmed g point)				crudely flaked; ML(72mm), SL13mm, SW(31mm), MT13mm
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Biface	1	point	quartz				missing tip	Halifax Side Notched				SL13mm SW18mm, BW15mm, MT9mm
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite									
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Deb	1	bifacial thinning flake	quartz									
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Deb	12	bifacial thinning flake	metavolcanic									
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Deb	2	flake fragment	metavolcanic									

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31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Deb	3	flake fragment	aphyric rhyolite									
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Deb	4	interior flake	quartzite									
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Deb	143	interior flake	quartz									
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Deb	35	interior flake	metavolcanic									
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Deb	3	interior flake	quartz porphyritic rhyolite									
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Deb	5	interior flake	aphyric rhyolite									
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Deb	8	shatter	quartz									
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Indt	1	fragment	quartz									
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Indt	1	fragment	metavolcanic				reddened				possible FCR?	
31WA1997 /1997**	2017.0071.01	General Surface	surf		Lithic Tool	1	retouched flake	quartz									
31WA1997 /1997**	2017.0071.22	Judgementa 1 ST 01	ı 1		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA1997 /1997**	2017.0071.23	Judgementa 1 ST 01	u 2		Lithic Deb	1	interior flake	metavolcanic									

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Coun	t Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA1997 /1997**	2017.0071.24	Judgementa 1 ST 02	. 1		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite								
31WA1997 /1997**	2017.0071.24	Judgementa 1 ST 02	1		Lithic Deb	1	interior flake	metavolcanic								
31WA1997 /1997**	2017.0071.24	Judgementa 1 ST 02	1		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA1997 /1997**	2017.0071.25	Judgementa 1 ST 03	1		Lithic Deb	1	flake fragment	metavolcanic								
31WA1997 /1997**	2017.0071.02	ST 01	1 1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1997 /1997**	2017.0071.02	ST 01	1 1		Lithic Deb	4	interior flake	metavolcanic								
31WA1997 /1997**	2017.0071.03	ST 01	2 1		Lithic Deb	2	bifacial thinning flake	metavolcanic								
31WA1997 /1997**	2017.0071.03	ST 01	2 1		Lithic Deb	16	interior flake	metavolcanic								
31WA1997 /1997**	2017.0071.03	ST 01	2 1		Lithic Deb	3	interior flake	quartz								
31WA1997 /1997**	2017.0071.03	ST 01	2 1		Lithic Deb	1	interior flake	quartz porphyritic rhyolite								
31WA1997 /1997**	2017.0071.04	ST 02	2		Lithic Deb	2	bifacial thinning flake	aphyric rhyolite								
31WA1997 /1997**	2017.0071.04	ST 02	2		Lithic Deb	3	interior flake	metavolcanic								

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31WA1997 /1997**	2017.0071.04	ST 02	2		Lithic Deb	3	interior flake	quartz								
31WA1997 /1997**	2017.0071.05	ST 03	1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1997 /1997**	2017.0071.05	ST 03	1		Lithic Deb	3	interior flake	metavolcanic								
31WA1997 /1997**	2017.0071.06	ST 03	2		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite								
31WA1997 /1997**	2017.0071.06	ST 03	2		Lithic Deb	1	interior flake	quartzite								
31WA1997 /1997**	2017.0071.06	ST 03	2		Lithic Deb	3	interior flake	quartz								
31WA1997 /1997**	2017.0071.07	ST 04	1		Lithic Deb	2	interior flake	quartz								
31WA1997 /1997**	2017.0071.08	ST 06	1		Lithic Deb	1	interior flake	quartz								
31WA1997 /1997**	2017.0071.09	ST 09	3		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1997 /1997**	2017.0071.10	ST 13	2		Lithic Deb	1	interior flake	quartz								
31WA1997 /1997**	2017.0071.10	ST 13	2		Lithic Deb	1	interior flake	quartz porphyritic rhyolite								
31WA1997 /1997**	2017.0071.11	ST 13	3		Lithic Deb	2	bifacial thinning flake	metavolcanic								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight (g)	Comment
31WA1997 /1997**	2017.0071.11	ST 13	3		Lithic Deb	1	interior flake	quartz porphyritic rhyolite									
31WA1997 /1997**	2017.0071.12	ST 17	2		NA Cer	4	rim sherd/body sherd	granule-sized quartz temper	simple direct rim with flattened lip	fabric impr ext, plain int		2 pieces refit	Yadkin series (likely same vessel				sherds between 2 and 6 cm in max dimension
31WA1997 /1997**	2017.0071.13	ST 17	3		Lithic Deb	3	interior flake	quartz									
31WA1997 /1997**	2017.0071.14	ST 22	3		Lithic Deb	1	bifacial thinning flake	g aphyric rhyolite									
31WA1997 /1997**	2017.0071.15	ST 25	2		Lithic Deb	1	flake fragment	aphyric rhyolite									
31WA1997 /1997**	2017.0071.15	ST 25	2		Lithic Deb	10	interior flake	quartz									
31WA1997 /1997**	2017.0071.15	ST 25	2		Lithic Deb	2	interior flake	metavolcanic									
31WA1997 /1997**	2017.0071.16	ST 26	2		Lithic Deb	2	bifacial thinning flake	g metavolcanic									
31WA1997 /1997**	2017.0071.16	ST 26	2		Lithic Deb	4	interior flake	quartz									
31WA1997 /1997**	2017.0071.16	ST 26	2		Lithic Deb	4	interior flake	metavolcanic									
31WA1997 /1997**	2017.0071.17	ST 31	2		Lithic Deb	3	bifacial thinning flake	g metavolcanic									
31WA1997 /1997**	2017.0071.17	ST 31	2		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite									

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31WA1997 /1997**	2017.0071.17	ST 31	2		Lithic Deb	5	interior flake	metavolcanic								
31WA1997 /1997**	2017.0071.17	ST 31	2		NA Cer	1	body sherd	granule-sized quartz temper		fabric impr ext, plain int			Yadkin series			small sherd, just over 2 cm maximum dimension
31WA1997 /1997**	2017.0071.18	ST 34	3		Lithic Biface	1	point	aphyric rhyolite				complete	Palmer Corner Notched			ML33mm, SL6mm, SW23mm, BW18m, 6mm
31WA1997 /1997**	2017.0071.18	ST 34	3		Lithic Deb	5	interior flake	quartz								
31WA1997 /1997**	2017.0071.18	ST 34	3		Lithic Deb	1	shatter	quartz								
31WA1997 /1997**	2017.0071.19	ST 36	2/3		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA1997 /1997**	2017.0071.19	ST 36	2/3		Lithic Deb	2	interior flake	quartz								
31WA1997 /1997**	2017.0071.19	ST 36	2/3		Lithic Deb	4	interior flake	metavolcanic								
31WA1997 /1997**	2017.0071.20	ST 37	1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1997 /1997**	2017.0071.21	ST 37	2		Lithic Deb	2	interior flake	metavolcanic								
31WA1997 /1997**	2017.0071.27	TU 01	1		Lithic Deb	2	interior flake	aphyric rhyolite								
31WA1997 /1997**	2017.0071.27	TU 01	1		Lithic Deb	2	interior flake	metavolcanic								

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31WA1997 /1997**	2017.0071.26	TU 01	1 1		Glass	1	container glass		body fragment		amethyst		solarized/ manganese dioxide decolorized	1820s - 1930s (most common 1890 - 1920)	Lindsey 2017	
31WA1997 /1997**	2017.0071.26	TU 01	1 1		Lithic Deb	2	interior flake	quartz porphyritic rhyolite								
31WA1997 /1997**	2017.0071.26	TU 01	1 1		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA1997 /1997**	2017.0071.26	TU 01	1 1		Lithic Deb	3	interior flake	quartz								
31WA1997 /1997**	2017.0071.26	TU 01	1 1		Lithic Deb	8	interior flake	metavolcanic								
31WA1997 /1997**	2017.0071.26	TU 01	1 1		Lithic Deb	1	shatter	quartz								
31WA1997 /1997**	2017.0071.28	TU 01	2 1		Lithic Deb	4	bifacial thinning flake	metavolcanic								
31WA1997 /1997**	2017.0071.28	TU 01	2 1		Lithic Deb	21	interior flake	metavolcanic								
31WA1997 /1997**	2017.0071.28	TU 01	2 1		Lithic Deb	2	interior flake	quartz								
31WA1997 /1997**	2017.0071.29	TU 01	2 2		Lithic Deb	13	interior flake	metavolcanic								
31WA1997 /1997**	2017.0071.29	TU 01	2 2		Lithic Deb	3	interior flake	quartz								
31WA1997 /1997**	2017.0071.30	TU 01	2 3		Lithic Deb	4	interior flake	metavolcanic								

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31WA1997 /1997**	2017.0071.30	TU 01	2 3		Lithic Deb	1	interior flake	quartz									_
31WA1997 /1997**	2017.0071.31	TU 01	2 4		Lithic Deb	1	interior flake	metavolcanic									
31WA1997 /1997**	2017.0071.31	TU 01	2 4		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA1997 /1997**	2017.0071.37	TU 01 Backdirt			Lithic Deb	6	interior flake	metavolcanic									
31WA1997 /1997**	2017.0071.32	TU 01, Feature 1	2		Lithic Deb	2	bifacial thinning flake	metavolcanic									
31WA1997 /1997**	2017.0071.32	TU 01, Feature 1	2		Lithic Deb	1	interior flake	metavolcanic									
31WA1997 /1997**	2017.0071.33	TU 01, Feature 1	3		Lithic Deb	1	interior flake	quartz									
31WA1997 /1997**	2017.0071.33	TU 01, Feature 1	3		Lithic Deb	1	interior flake	metavolcanic									
31WA1997 /1997**	2017.0071.34	TU 01, Feature 1	5		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA1997 /1997**	2017.0071.34	TU 01, Feature 1	5		Lithic Deb	1	interior flake	metavolcanic									
31WA1997 /1997**	2017.0071.35	TU 01, Feature 1	7		Lithic Deb	1	interior flake	metavolcanic									
31WA1997 /1997**	2017.0071.36	TU 01, Feature 1, Wall Cleaning	2		Lithic Deb	1	bifacial thinning flake	metavolcanic									

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31WA1997 /1997**	2017.0071.36	TU 01, Feature 1, Wall Cleaning	2		Lithic Deb	2	interior flake	quartz							
31WA1997 /1997**	2017.0071.36	TU 01, Feature 1, Wall Cleaning	2		Lithic Deb	6	interior flake	metavolcanic							
31WA1997 /1997**	2017.0071.38	TU 01/02	2 1		Lithic Deb	2	bifacial thinning flake	metavolcanic							floor cleanup for adjacent units
31WA1997 /1997**	2017.0071.38	TU 01/02	2 1		Lithic Deb	1	interior flake	quartz porphyritic rhyolite							floor cleanup for adjacent units
31WA1997 /1997**	2017.0071.38	TU 01/02	2 1		Lithic Deb	5	interior flake	metavolcanic							floor cleanup for adjacent units
31WA1997 /1997**	2017.0071.38	TU 01/02	2 1		Lithic Deb	2	interior flake	quartz							floor cleanup for adjacent units
31WA1997 /1997**	2017.0071.41	TU 02	2 1		Lithic Deb	2	bifacial thinning flake	metavolcanic							
31WA1997 /1997**	2017.0071.41	TU 02	2 1		Lithic Deb	22	interior flake	metavolcanic							
31WA1997 /1997**	2017.0071.41	TU 02	2 1		Lithic Deb	2	interior flake	aphyric rhyolite							
31WA1997 /1997**	2017.0071.41	TU 02	2 1		Lithic Indt	1	fragment	quartzite							
31WA1997 /1997**	2017.0071.42	TU 02	2 2		Lithic Deb	1	bifacial thinning flake	metavolcanic							
31WA1997 /1997**	2017.0071.42	TU 02	2 2		Lithic Deb	3	interior flake	quartz							

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31WA1997 /1997**	2017.0071.42	TU 02	2 2		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite								
31WA1997 /1997**	2017.0071.42	TU 02	2 2		Lithic Deb	6	interior flake	metavolcanic								
31WA1997 /1997**	2017.0071.43	TU 02	2 3		Lithic Deb	1	interior flake	quartz								
31WA1997 /1997**	2017.0071.43	TU 02	2 3		Lithic Deb	1	interior flake	metavolcanic								
31WA1997 /1997**	2017.0071.39	TU 02, East Half	1 1		Lithic Deb	2	bifacial thinning flake	metavolcanic								
31WA1997 /1997**	2017.0071.39	TU 02, East Half	1 1		Lithic Deb	7	interior flake	metavolcanic								
31WA1997 /1997**	2017.0071.39	TU 02, East Half	1 1		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA1997 /1997**	2017.0071.40	TU 02, West Half	1 1		Glass	1	container glass		body fragment		colorless					
31WA1997 /1997**	2017.0071.40	TU 02, West Half	1 1		Lithic Deb	6	interior flake	metavolcanic								
31WA1997 /1997**	2017.0071.40	TU 02, West Half	1 1		Lithic Deb	1	interior flake	quartz								
31WA1997 /1997**	2017.0071.40	TU 02, West Half	1 1		Lithic Deb	1	interior flake	quartz porphyritic rhyolite								
31WA1997 /1997**	2017.0071.40	TU 02, West Half	1 1		Lithic Deb	1	interior flake	aphyric rhyolite								

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31WA1997 /1997**	2017.0071.40	TU 02, West Half	1 1		NA Cer	1	sherd under 2cm max dimension					i	indt			generally consistent with Yadkin	1
31WA1997 /1997**	2017.0071.44	TU 03	1		Glass	1	container glass		body fragment		colorless						
31WA1997 /1997**	2017.0071.44	TU 03	1		Lithic Deb	2	bifacial thinning flake	metavolcanic									
31WA1997 /1997**	2017.0071.44	TU 03	1		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA1997 /1997**	2017.0071.44	TU 03	1		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite									
31WA1997 /1997**	2017.0071.44	TU 03	1		Lithic Deb	6	interior flake	metavolcanic									
31WA1997 /1997**	2017.0071.45	TU 03	2 1		Lithic Biface	1	retouched flake	aphyric rhyolite									
31WA1997 /1997**	2017.0071.45	TU 03	2 1		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA1997 /1997**	2017.0071.45	TU 03	2 1		Lithic Deb	10	interior flake	metavolcanic									
31WA1997 /1997**	2017.0071.46	TU 03	2 2		Lithic Biface	1	biface	quartz porphyritic rhyolite									
31WA1997 /1997**	2017.0071.46	TU 03	2 2		Lithic Deb	3	bifacial thinning flake	metavolcanic									
31WA1997 /1997**	2017.0071.46	TU 03	2 2		Lithic Deb	1	interior flake	aphyric rhyolite									

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31WA1997 /1997**	7 2017.0071.46	TU 03	2 2		Lithic Deb	2	interior flake	quartz									
31WA1997 /1997**	7 2017.0071.46	TU 03	2 2		Lithic Deb	6	interior flake	metavolcanic									
31WA1997 /1997**	7 2017.0071.47	TU 03	2 3		Lithic Deb	1	bifacial thinning flake	g metavolcanic									
31WA1997 /1997**	7 2017.0071.47	TU 03	2 3		Lithic Deb	5	interior flake	metavolcanic									
31WA1997 /1997**	7 2017.0071.48	TU 03	2 4		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA1997 /1997**	7 2017.0071.48	TU 03	2 4		Lithic Deb	6	interior flake	metavolcanic									
31WA1997 /1997**	7 2017.0071.48	TU 03	2 4		Lithic Indt	1	fragment	quartz									
31WA1997 /1997**	7 2017.0071.49	TU 04	1 2		NA Cer	3	sherd under 2cm max dimension						indt				darker paste and too small to characterize any attributes
31WA1997 /1997**	7 2017.0071.50	TU 04	2 1		NA Cer	13	body sherd	granule-sized quartz temper		fabric impr ext, plain int		2 sets of 2 pieces refitting	Yadkin series (likely same vessel				sherds between 1 and 8 cm max dimension
31WA1997 /1997**	7 2017.0071.50	TU 04	2 1		NA Cer	9	body sherd/base sherd	e granule- to pebble-sized quartz temper	semi-conoidal base	cord-marked ext, plain int			Yadkin series (likely same vessel				bae up to 15 cm thick, sherds between 3 and 9 cm max dimension
31WA1997 /1997**	7 2017.0071.51	TU 04	3 1		Botanical	8	charcoal									<1.0 g	
31WA1997 /1997**	7 2017.0071.51	TU 04	3 1		Lithic Deb	4	interior flake	quartz									

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31WA1997 /1997**	2017.0071.51	TU 04	3 1		NA Cer	1	body sherd	granule-sized quartz temper		fabric impr ext, plain int			Yadkin series				
31WA1997 /1997**	2017.0071.52	TU 05	1 1		Lithic Deb	1	biface fragment	quartz									
31WA1997 /1997**	2017.0071.52	TU 05	1 1		Lithic Deb	4	interior flake	metavolcanic									
31WA1997 /1997**	2017.0071.52	TU 05	1 1		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite									
31WA1997 /1997**	2017.0071.53	TU 06	1		Lithic Deb	2	interior flake	quartz porphyritic rhyolite									
31WA1997 /1997**	2017.0071.53	TU 06	1		Lithic Deb	2	interior flake	metavolcanic									
31WA1997 /1997**	2017.0071.54	TU 06	2 1		Lithic Deb	1	flake fragment	metavolcanic									
31WA1997 /1997**	2017.0071.54	TU 06	2 1		Lithic Deb	1	interior flake	metavolcanic									
31WA1997 /1997**	2017.0071.56	TU 07	2 1	noncultura fill	al Lithic Deb	1	bifacial thinning flake	g quartz									
31WA1997 /1997**	2017.0071.55	TU 07	2 1		Lithic Deb	3	bifacial thinning flake	g metavolcanic									
31WA1997 /1997**	2017.0071.55	TU 07	2 1		Lithic Deb	2	interior flake	quartz									
31WA1997 /1997**	2017.0071.55	TU 07	2 1		NA Cer	4	rim sherd/body sherd	granule-sized quartz temper	simple direct rim with rounded lip	fabric impr ext, plain int			Yadkin series (likely same vessel)			one rim, 3 body	

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31WA1997 /1997**	2017.0071.57	TU 07	2 2		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1997 /1997**	2017.0071.57	TU 07	2 2		Lithic Deb	4	interior flake	quartz								
31WA1997 /1997**	2017.0071.57	TU 07	2 2		Lithic Deb	5	interior flake	metavolcanic								
31WA1997 /1997**	2017.0071.57	TU 07	2 2		Lithic Deb	1	shatter	quartz								
31WA1997 /1997**	2017.0071.58	TU 07	2 3		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite								
31WA1997 /1997**	2017.0071.58	TU 07	2 3		Lithic Deb	2	bifacial thinning flake	metavolcanic								
31WA1997 /1997**	2017.0071.58	TU 07	2 3		Lithic Deb	1	interior flake	quartzite								
31WA1997 /1997**	2017.0071.58	TU 07	2 3		Lithic Deb	21	interior flake	quartz								
31WA1997 /1997**	2017.0071.58	TU 07	2 3		Lithic Deb	3	interior flake	metavolcanic								
31WA1997 /1997**	2017.0071.58	TU 07	2 3		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA1997 /1997**	2017.0071.59	TU 07	2 4		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1997 /1997**	2017.0071.59	TU 07	2 4		Lithic Deb	1	bifacial thinning flake	quartz								

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31WA1997 /1997**	2017.0071.59	TU 07	2 4		Lithic Deb	2	interior flake	metavolcanic								
31WA1997 /1997**	2017.0071.59	TU 07	2 4		Lithic Deb	7	interior flake	quartz								
31WA1997 /1997**	2017.0071.59	TU 07	2 4		Lithic Deb	2	interior flake	aphyric rhyolite								
31WA1997 /1997**	2017.0071.60	TU 07	2 5		Lithic Deb	7	interior flake	metavolcanic								
31WA1997 /1997**	2017.0071.60	TU 07	2 5		Lithic Deb	14	interior flake	quartz								
31WA1997 /1997**	2017.0071.60	TU 07	2 5		Lithic Indt	1	unmodified pebble	quartz								
31WA1997 /1997**	2017.0071.61	TU 07	2 6		Botanical?	1	petrified wood?									
31WA1997 /1997**	2017.0071.61	TU 07	2 6		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1997 /1997**	2017.0071.61	TU 07	2 6		Lithic Deb	1	flake fragment	metavolcanic								
31WA1997 /1997**	2017.0071.62	TU 07	2 8		Lithic Deb	1	interior flake	metavolcanic								
31WA1997 /1997**	2017.0071.63	TU 08	1 2		Lithic Deb	1	interior flake	quartzite								
31WA1997 /1997**	2017.0071.64	TU 08	2 1		Lithic Deb	6	interior flake	quartz								

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31WA1997 /1997**	2017.0071.64	TU 08	2 1		Lithic Deb	2	interior flake	aphyric rhyolite								
31WA1997 /1997**	2017.0071.64	TU 08	2 1		Lithic Deb	1	interior flake	metavolcanic								
31WA1997 /1997**	2017.0071.64	TU 08	2 1		NA Cer	1	body sherd (coil break)	l granule-sized quartz temper		fabric or net impr ext, plain int	?		indt			small sherd, impressed with loose woven material
31WA1997 /1997**	2017.0071.65	TU 08	2 2		Lithic Deb	3	interior flake	metavolcanic								
31WA1997 /1997**	2017.0071.65	TU 08	2 2		Lithic Deb	8	interior flake	quartz								
31WA1997 /1997**	2017.0071.65	TU 08	2 2		Lithic Tool	1	core?	quartz								
31WA1997 /1997**	2017.0071.65	TU 08	2 2		Lithic Tool	1	retouched flake	aphyric rhyolite								
31WA1997 /1997**	2017.0071.66	TU 08	3 1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA1997 /1997**	2017.0071.66	TU 08	3 1		Lithic Deb	10	interior flake	quartz								
31WA1997 /1997**	2017.0071.66	TU 08	3 1		Lithic Indt	1	fragment	metavolcanic								
31WA1997 /1997**	2017.0071.67	TU 08	3 2		Lithic Deb	10	interior flake	quartz								
31WA1997 /1997**	2017.0071.67	TU 08	3 2		Lithic Deb	4	interior flake	metavolcanic								

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31WA1997 /1997**	2017.0071.67	TU 08	3 2		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA1997 /1997**	2017.0071.68	TU 08	3 3		Lithic Deb	2	interior flake	metavolcanic									
31WA1997 /1997**	2017.0071.68	TU 08	3 3		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA1997 /1997**	2017.0071.69	TU 09	1 1		Lithic Deb	1	interior flake	quartz									
31WA1997 /1997**	2017.0071.70	TU 09	2 1		NA Cer	1	body sherd	granule-sized quartz temper		fabric impr ext (twined fabric), plain int			consistent with Yadkin series				twined, while all others from site but -64 a weft-faced textile
31WA1997 /1997**	2017.0071.71	TU 09	3 1		Lithic Biface	1	point	quartz				part of base missing	indt Notched Point				nature of basal breakage makes it hard to judge if base was concave or straight; ML56mm, MT8mm
31WA1997 /1997**	2017.0071.71	TU 09	3 1		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite									
31WA1997 /1997**	2017.0071.71	TU 09	3 1		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA1997 /1997**	2017.0071.71	TU 09	3 1		Lithic Deb	2	interior flake	metavolcanic									
31WA1997 /1997**	2017.0071.72	TU 09	3 2		Lithic Deb	1	flake fragment	aphyric rhyolite									
31WA1997 /1997**	2017.0071.72	TU 09	3 2		Lithic Deb	2	interior flake	metavolcanic									
31WA1997 /1997**	2017.0071.72	TU 09	3 2		Lithic Deb	1	interior flake	quartz									

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31WA1997 /1997**	2017.0071.73	TU 09	3 3		Lithic Biface	1	point	aphyric rhyolite				base only	Large? Triangular				BW29m, MT6mm
31WA1997 /1997**	2017.0071.73	TU 09	3 3		Lithic Deb	1	interior flake	metavolcanic									
31WA1997 /1997**	2017.0071.73	TU 09	3 3		Lithic Deb	2	interior flake	quartz									
31WA1997 /1997**	2017.0071.74	TU 09	3 5		Lithic Deb	1	interior flake	metavolcanic									
31WA1997 /1997**	2017.0071.75	TU 10	1 2		Lithic Deb	1	interior flake	quartz									
31WA1997 /1997**	2017.0071.76	TU 10	2 1		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA1997 /1997**	2017.0071.76	TU 10	2 1		Lithic Deb	2	interior flake	quartz									
31WA1997 /1997**	2017.0071.77	TU 10	3 1		Lithic Biface	1	biface	aphyric rhyolite									
31WA1997 /1997**	2017.0071.77	TU 10	3 1		Lithic Deb	1	bifacial thinning flake	; quartz									
31WA1997 /1997**	2017.0071.77	TU 10	3 1		Lithic Deb	12	interior flake	quartz									
31WA1997 /1997**	2017.0071.77	TU 10	3 1		Lithic Deb	4	interior flake	metavolcanic									
31WA1997 /1997**	2017.0071.77	TU 10	3 1		Lithic Deb	1	shatter	quartz									

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31WA1997 /1997**	2017.0071.77	TU 10	3 1		Lithic Indt	1	fragment	quartzite									
31WA1997 /1997**	2017.0071.78	TU 10	3 2		Lithic Biface	1	point	quartz				tip missing	Palmer Corner Notched			n E E	esharpened; ML(32mm), BL8mm, SW22mm, BW23mm, MT7mm
31WA1997 /1997**	2017.0071.78	TU 10	3 2		Lithic Deb	9	interior flake	quartz									
31WA1997 /1997**	2017.0071.78	TU 10	3 2		Lithic Indt	1	fragment	quartzite									
31WA1997 /1997**	2017.0071.79	TU 10	3 3		Lithic Biface	1	point	metavolcanic				midsection only					
31WA1997 /1997**	2017.0071.79	TU 10	3 3		Lithic Deb	9	interior flake	quartz									
31WA1997 /1997**	2017.0071.80	TU 10	3 4		Lithic Deb	4	interior flake	quartz									
31WA1997 /1997**	2017.0071.81	TU 11	1 1		Lithic Deb	1	interior flake	quartz									
31WA1997 /1997**	2017.0071.82	TU 11	2 1		Lithic Deb	1	interior flake	quartz									
31WA1997 /1997**	2017.0071.83	TU 11	2 2		Lithic Deb	3	interior flake	quartz									
31WA1997 /1997**	2017.0071.84	TU 11	3 1		Lithic Deb	15	interior flake	quartz									
31WA1997 /1997**	2017.0071.85	TU 11	3 2		Lithic Biface	1	biface fragment	metavolcanic									

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31WA1997 /1997**	2017.0071.85	TU 11	3 2		Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite								
31WA1997 /1997**	2017.0071.85	TU 11	3 2		Lithic Deb	2	interior flake	metavolcanic								
31WA1997 /1997**	2017.0071.85	TU 11	3 2		Lithic Deb	8	interior flake	quartz								
31WA1997 /1997**	2017.0071.86	TU 11	3 3		Lithic Deb	3	interior flake	quartz								
31WA1998	2017.0072.01	ST 01	1		Lithic Biface	1	point	metavolcanic				tip missing	Small Savannah river Stemmed			SL11mm, SW26, BW17mm, MT9mm
31WA1999	2017.0073.01	ST 01	1		Lithic Deb	1	interior flake	quartz								
31WA2000	2017.0074.01	General Surface	surf		Lithic Biface	1	biface	metavolcanic								
31WA2000	2017.0074.01	General Surface	surf		Lithic Biface	1	biface	quartzite								
31WA2000	2017.0074.01	General Surface	surf		Lithic Biface	1	biface fragment	metavolcanic								
31WA2000	2017.0074.01	General Surface	surf		Lithic Deb	7	bifacial thinning flake	metavolcanic								
31WA2000	2017.0074.01	General Surface	surf		Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite								
31WA2000	2017.0074.01	General Surface	surf		Lithic Deb	1	bifacial thinning flake	plagioclase- quartz porphyritic rhyolite								

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31WA2000	2017.0074.01	General Surface	surf		Lithic Deb	3	flake fragment	metavolcanic									
31WA2000	2017.0074.01	General Surface	surf		Lithic Deb	18	interior flake	quartz									
31WA2000	2017.0074.01	General Surface	surf		Lithic Deb	2	interior flake	plagioclase porphyritic rhyolite									
31WA2000	2017.0074.01	General Surface	surf		Lithic Deb	1	interior flake	chert									
31WA2000	2017.0074.01	General Surface	surf		Lithic Deb	10	interior flake	metavolcanic									
31WA2000	2017.0074.02	ST 01	1		Lithic Biface	1	point	metavolcanic				complete	Morrow Mountain II Stemmed		Coe (1964)		ML53mm, SL29mm, MT11mm
31WA2000	2017.0074.03	ST 04	2		Lithic Deb	1	interior flake	quartz									
31WA2000	2017.0074.04	ST 05	1		Lithic Deb	1	interior flake	quartz									
31WA2000	2017.0074.05	ST 06	1		Lithic Biface	1	point	quartz				missing tip	possibly Yadkin Large Triangular, eared variety				ML(34mm), BW19mm, MT6mm
31WA2000	2017.0074.06	ST 15	1		Lithic Deb	2	interior flake	quartz									
31WA2000	2017.0074.07	ST 21	1		Lithic Deb	1	bifacial thinning flake	g metavolcanic									
31WA2000	2017.0074.07	ST 21	1		Lithic Deb	1	interior flake	quartz									

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31WA2000	2017.0074.08	ST 22	1		Lithic Deb	2	interior flake	metavolcanic								
31WA2000	2017.0074.08	ST 22	1		Lithic Deb	1	interior flake	quartz								
31WA2000	2017.0074.09	TU 01	1 1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA2000	2017.0074.09	TU 01	1 1		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite								
31WA2000	2017.0074.09	TU 01	1 1		Lithic Deb	3	interior flake	quartz								
31WA2000	2017.0074.09	TU 01	1 1		Lithic Deb	1	interior flake	metavolcanic								
31WA2000	2017.0074.10	TU 01	1 2		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2000	2017.0074.10	TU 01	1 2		Lithic Deb	6	interior flake	metavolcanic								
31WA2000	2017.0074.10	TU 01	1 2		Lithic Deb	5	interior flake	quartz								
31WA2000	2017.0074.10	TU 01	1 2		Lithic Deb	1	retouch flake	metavolcanic								
31WA2000	2017.0074.11	TU 01	1 3		Lithic Deb	2	bifacial thinning flake	metavolcanic								
31WA2000	2017.0074.11	TU 01	1 3		Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite								

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31WA2000	2017.0074.11	TU 01	1 3		Lithic Deb	1	bifacial thinning flake	quartz porphyritic rhyolite								
31WA2000	2017.0074.11	TU 01	1 3		Lithic Deb	2	interior flake	quartz								
31WA2000	2017.0074.11	TU 01	1 3		Lithic Deb	1	interior flake	metavolcanic								
31WA2000	2017.0074.12	TU 02	1 1		Lithic Deb	1	interior flake	metavolcanic								
31WA2000	2017.0074.13	TU 02	1 3		Lithic Deb	1	interior flake	metavolcanic								
31WA2000	2017.0074.14	TU 02	2 1		Lithic Deb	1	interior flake	quartz								
31WA2001	2017.0075.01	ST 01	1		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2002	2017.0076.01	ST 01	1		Lithic Deb	1	interior flake	quartz								
31WA2003	2017.0077.01	General Surface	surf		Lithic Biface	1	point	metavolcanic				midsection only ind poi	t stemmed			stemmed point
31WA2003	2017.0077.01	General Surface	surf		Lithic Deb	2	bifacial thinning flake	quartz								
31WA2003	2017.0077.01	General Surface	surf		Lithic Deb	3	bifacial thinning flake	metavolcanic								
31WA2003	2017.0077.01	General Surface	surf		Lithic Deb	14	interior flake	quartz								

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31WA2003	3 2017.0077.01	General Surface	surf		Lithic Deb	2	interior flake	metavolcanic									
31WA2003	3 2017.0077.01	General Surface	surf		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2003	3 2017.0077.02	ST 01	1		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA2003	2017.0077.03	ST 01	2		Lithic Deb	1	bifacial thinning flake	g metavolcanic									
31WA2004	2017.0078.01	ST 01	1		Lithic Deb	1	bifacial thinning flake	g metavolcanic									
31WA2004	2017.0078.02	ST 05	1		Lithic Deb	1	interior flake	quartz									
31WA2005	2017.0079.01	General Surface	surf		Lithic Biface	: 1	biface	aphyric rhyolite									
31WA2005	2017.0079.01	General Surface	surf		Lithic Biface	: 1	point	metavolcanic				tip/midsection inde only	i			atlte	ernate beveling
31WA2005	5 2017.0079.01	General Surface	surf		Lithic Deb	2	bifacial thinning flake	g metavolcanic									
31WA2005	2017.0079.01	General Surface	surf		Lithic Deb	1	interior flake	metavolcanic									
31WA2005	2017.0079.01	General Surface	surf		Lithic Deb	1	interior flake	quartz									
31WA2005	2017.0079.02	ST 01	1		Lithic Deb	2	interior flake	metavolcanic									

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31WA2006 /2006**	2017.0080.01	General Surface	surf		Glass	1	container glass		body fragment		amethyst		solarized/ manganese dioxide decolorized	1820s - 1930s (most common 1890 - 1920)	Lindsey 2017	
31WA2006 /2006**	5 2017.0080.01	General Surface	surf		H Ceram	1	pearlware		rim fragment	blue transfer printed	bluish white and blue		transfer printed	1784-1840	FMNH 2017	
31WA2006 /2006**	2017.0080.01	General Surface	surf		H Ceram	1	stoneware (North American)		body fragment	salt glazed exterior	r gray		gray bodied			
31WA2006 /2006**	2017.0080.01	General Surface	surf		H Ceram	1	stoneware (North American)		body fragment	gray glazed interio	r buff and gray	heat altered/melted	buff bodied			
31WA2006 /2006**	2017.0080.01	General Surface	surf		H Ceram	1	stoneware (North American)		body fragment	brown salt glazed exterior	buff and brown	n	buff bodied			
31WA2006 /2006**	2017.0080.01	General Surface	surf		H Ceram	1	white granite (ironstone)		base/footring fragment		white			1830s - early 20th century	JPPM 2017	
31WA2006 /2006**	2017.0080.01	General Surface	surf		Lithic Biface	1	biface fragment	quartz								
31WA2006 /2006**	2017.0080.01	General Surface	surf		Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite								
31WA2006 /2006**	2017.0080.01	General Surface	surf		Lithic Deb	1	interior flake	quartz								
31WA2007	2017.0081.01	ST 01	2		Lithic Deb	1	interior flake	metavolcanic								
31WA2007	2017.0081.02	ST 09	1		Lithic Deb	1	interior flake	metavolcanic								refit
31WA2008 /2008**	2017.0082.01	General Surface	surf		Glass	1	finial				light amethyst		solarized/ manganese dioxide decolorized	1820s - 1930s (most common 1890 - 1920)	Lindsey 2017	

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2008 /2008**	2017.0082.01	General Surface	surf		H Ceram	2	whiteware		body fragment	molded	white			1830-present	Miller et al. 2000	
31WA2008 /2008**	2017.0082.01	General Surface	surf		H Ceram	1	whiteware		rim fragment		white			1830-present	Miller et al. 2000	
31WA2008 /2008**	2017.0082.01	General Surface	surf		Lithic Biface	1	biface	metavolcanic					indt			
31WA2008 /2008**	2017.0082.01	General Surface	surf		Lithic Biface	1	point	aphyric rhyolite				broken shoulde:	r Morrow Mountain II Stemmed?			ML55, SL17mm, SW(38mm), MT6mm
31WA2008 /2008**	2017.0082.01	General Surface	surf		Lithic Biface	1	point	plagioclase porphyritic rhyolite				tip missing	Savanah River Stemmed			SL18mm, SW43mm, BW22mm, MT12mm
31WA2008 /2008**	2017.0082.01	General Surface	surf		Lithic Biface	1	point	quartz				tip only	indt			
31WA2008 /2008**	2017.0082.01	General Surface	surf		Lithic Biface	1	point	plagioclase- quartz porphyritic rhyolite				tip only	indt			
31WA2008 /2008**	2017.0082.01	General Surface	surf		Lithic Deb	2	bifacial thinning flake	; metavolcanic								
31WA2008 /2008**	2017.0082.01	General Surface	surf		Lithic Deb	3	bifacial thinning flake	; quartz								
31WA2008 /2008**	2017.0082.01	General Surface	surf		Lithic Deb	4	interior flake	metavolcanic								
31WA2008 /2008**	2017.0082.01	General Surface	surf		Lithic Deb	3	interior flake	aphyric rhyolite								
31WA2008 /2008**	2017.0082.01	General Surface	surf		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)	
31WA2008 /2008**	2017.0082.01	General Surface	surf		Lithic Deb	1	interior flake	plagioclase- quartz porphyritic rhyolite									
31WA2008 /2008**	2017.0082.01	General Surface	surf		Lithic Deb	1	interior flake	quartzite									
31WA2008 /2008**	2017.0082.01	General Surface	surf		Lithic Deb	44	interior flake	quartz									
31WA2008 /2008**	2017.0082.01	General Surface	surf		Lithic Deb	1	interior flake	rhyolitic breccia?	,								
31WA2008 /2008**	2017.0082.01	General Surface	surf		Lithic Deb	4	shatter	quartz									
31WA2008 /2008**	2017.0082.01	General Surface	surf		Lithic Tool	3	retouched flake	quartz									
31WA2008 /2008**	2017.0082.02	ST 01	1		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2008 /2008**	2017.0082.03	ST 01	2		Lithic Deb	3	interior flake	aphyric rhyolite									
31WA2008 /2008**	2017.0082.04	ST 02	1		Glass	1	container glass		body fragment		opaque white "milk glass"			primarily 1870s - mid- 20th century	Lindsey 2017		
31WA2008 /2008**	2017.0082.04	ST 02	1		Lithic Deb	1	interior flake	metavolcanic									
31WA2008 /2008**	2017.0082.05	TU 01	1 2		Lithic Deb	2	bifacial thinning flake	g metavolcanic									
31WA2008 /2008**	2017.0082.05	TU 01	1 2		Lithic Deb	1	interior flake	metavolcanic									

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31WA2008 /2008**	2017.0082.06	TU 01	2 1		Lithic Deb	1	interior flake	metavolcanic									
31WA2008 /2008**	2017.0082.06	TU 01	2 1		Lithic Deb	1	interior flake	quartz									
31WA2009	2017.0083.01	General Surface	surf		Lithic Deb	2	interior flake	metavolcanic									
31WA2009	2017.0083.01	General Surface	surf		Lithic Deb	2	interior flake	aphyric rhyolite									
31WA2009	2017.0083.01	General Surface	surf		Lithic Deb	1	interior flake	quartz									
31WA2009	2017.0083.01	General Surface	surf		Lithic Deb	1	shatter	quartz									
31WA2009	2017.0083.02	ST 01	1		Lithic Deb	1	interior flake	quartz									
31WA2009	2017.0083.02	ST 01	1		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2009	2017.0083.03	ST 05	2		Lithic Deb	5	interior flake	quartz									
31WA2009	2017.0083.04	ST 07	1		Lithic Deb	1	interior flake	quartz									
31WA2009	2017.0083.05	ST 18	1		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2009	2017.0083.06	ST 19	1		Lithic Deb	1	interior flake	aphyric rhyolite									
Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)	
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31WA2009	2017.0083.07	TU 01	1 1		Lithic Deb	4	interior flake	quartz									
31WA2009	2017.0083.08	TU 01	2 1		Lithic Deb	2	interior flake	quartz									
31WA2009	2017.0083.09	TU 02	1 1		Glass	1	container glass		body fragment		aqua						
31WA2009	2017.0083.09	TU 02	1 1		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA2009	2017.0083.09	TU 02	1 1		Lithic Deb	13	interior flake	quartz									
31WA2009	2017.0083.09	TU 02	1 1		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2009	2017.0083.09	TU 02	1 1		Lithic Deb	1	shatter	quartz									
31WA2009	2017.0083.09	TU 02	1 1		NA Cer	1	body sherd	granule-sized quartz temper		fabric impr ext, plain int			Yadkin series				
31WA2009	2017.0083.10	TU 02	2 1		Lithic Deb	2	interior flake	quartz									
31WA2010	2017.0084.01	ST 01	1		Lithic Deb	1	interior flake	metavolcanic									
31WA2011	2017.0086.01	SF 01	surf		Lithic Tool	1	retouched flake	aphyric rhyolite									
31WA2011	2017.0086.02	SF 02	surf		Lithic Deb	1	interior flake	quartz									

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31WA2011	2017.0086.03	SF 03	surf		Lithic Deb	1	shatter	quartz									
31WA2012	2017.0087.01	ST 03	1		Lithic Biface	1	point	plagioclase porphyritic rhyolite				complete	stemmed point, possibly Savanah River Stemmed but blad proportions differ				may be heavily resharpened, ML52mm, 12mm, SW31mm, BW18mm, MT9mm
31WA2012	2017.0087.02	ST 05	1		Lithic Deb	1	interior flake	metavolcanic									
31WA2013	2017.0089.01	ST 01	2		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2013	2017.0089.01	ST 01	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2013	2017.0089.01	ST 01	2		Lithic Deb	1	interior flake	quartz									
31WA2018	2017.0143.01	ST 01	1		Lithic Deb	1	interior flake	metavolcanic									
31WA2018	2017.0143.01	ST 01	1		Lithic Deb	1	interior flake	quartz									
31WA2019	2017.0144.01	ST 01	1		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2019	2017.0144.01	ST 01	1		Lithic Indt	1	fragment	quartz									
31WA2019	2017.0144.01	ST 01	1		NA Cer	1	sherd under 2cm max dimension	some quartz temper visible					indt				
31WA2019	2017.0144.02	ST 01	2		Lithic Deb	1	interior flake	quartz									

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31WA2019	2017.0144.03	ST 03	1		NA Cer	1	body sherd	granule-size quartz temper		indt impr, plain int			Yadkin series			sme angular temper
31WA2020	2017.0145.01	ST 01	1		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2020	2017.0145.01	ST 01	1		NA Cer	2	rim sherd and body sherd	very coarse sand to granule-sized temper, some angular	simple direct rim with flattened lip	fabric impr ext, plain int			Yadkin series			
31WA2020	2017.0145.02	ST 01	2		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite								
31WA2020	2017.0145.02	ST 01	2		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2020	2017.0145.03	ST 06	1		NA Cer	1	sherd under 2cm max dimension						indt			
31WA2020	2017.0145.04	ST 08	1		NA Cer	4	sherd under 2cm max dimension						indt			
31WA2020	2017.0145.05	ST 09	1		Lithic Deb	1	interior flake	quartz								
31WA2020	2017.0145.06	ST 10	1		Lithic Deb	1	bifacial thinning flake	; rhyolitic breccia?								
31WA2020	2017.0145.07	ST 10	2		Lithic Deb	1	interior flake	quartz								
31WA2020	2017.0145.07	ST 10	2		Lithic Deb	1	shatter	quartz								
31WA2021	2017.0146.01	ST 01	1		Lithic Deb	1	flake fragment	metavolcanic								

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31WA2022	2017.0147.01	General Surface	surf		Lithic Deb	1	bifacial thinning flake	quartz								
31WA2022	2017.0147.02	ST 01	1		Lithic Deb	1	interior flake	metavolcanic								
31WA2022	2017.0147.02	ST 01	1		Lithic Deb	1	interior flake	rhyolitic breccia?								
31WA2022	2017.0147.02	ST 01	1		Lithic Deb	1	interior flake	quartz								
31WA2022	2017.0147.03	ST 02	1		Lithic Deb	1	interior flake	metavolcanic								refit (2 pieces)
31WA2022	2017.0147.04	ST 06	1		Lithic Indt	1	fragment	quartzite								
31WA2023	2017.0148.01	ST 01	2		Lithic Deb	1	interior flake	quartz								
31WA2023	2017.0148.01	ST 01	2		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2023	2017.0148.02	ST 02	1		Lithic Deb	1	interior flake	quartz								
31WA2023	2017.0148.03	ST 05	1		Lithic Deb	2	interior flake	quartz								
31WA2023	2017.0148.03	ST 05	1		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2023	2017.0148.03	ST 05	1		Lithic Deb	1	shatter	quartz								

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31WA2024	2017.0149.01	General Surface	surf		Lithic Deb	1	flake fragment	aphyric rhyolite								
31WA2025	2017.0150.01	General Surface	surf		Lithic Deb	1	interior flake	quartz porphyritic rhyolite								
31WA2026	2017.0151.01	General Surface	surf		Lithic Deb	1	interior flake	quartz								
31WA2027	2017.0152.01	ST 01	1		Lithic Biface	1	point	plagioclase- quartz porphyritic rhyolite				midsection only	indt			
31WA2028	2017.0153.01	General Surface	surf		Lithic Biface	1	late stage biface	quartz								
31WA2028	2017.0153.01	General Surface	surf		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2029	2017.0154.01	General Surface	surf	close to ST G-2	Lithic Deb	1	interior flake	metavolcanic								
31WA2030	2017.0155.01	General Surface	surf		H Ceram	1	stoneware (North American)		base fragment	gray salt glazed exterior, two blue painted dots on exterior	buff, gray, and blue		buff bodied			
31WA2030	2017.0155.01	General Surface	surf		Lithic Deb	1	interior flake	metavolcanic								
31WA2031	2017.0156.01	ST 01	1		Lithic Deb	1	interior flake	quartzite								
31WA2032	2017.0157.01	General Surface	surf		Lithic Biface	1	point	aphyric rhyolite				tip only	indt			
31WA2032	2017.0157.01	General Surface	surf		Lithic Biface	1	possible graver/perforato r	quartz)								bifacially worked piece with isolated projection

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31WA2032	2 2017.0157.01	General Surface	surf		Lithic Deb	1	bifacial thinning flake	g metavolcanic									
31WA2032	2017.0157.01	General Surface	surf		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite									
31WA2032	2017.0157.01	General Surface	surf		Lithic Deb	3	interior flake	quartz									
31WA2032	2017.0157.01	General Surface	surf		Lithic Deb	2	interior flake	quartzite									
31WA2032	2017.0157.01	General Surface	surf		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2032	2017.0157.02	ST 02	1		Lithic Deb	1	interior flake	quartz									
31WA2032	2 2017.0157.03	ST 03	2		Lithic Biface	1	point	aphyric rhyolite				complete	minature version of Palmer Corner Notched			prob rework start, base or ground, ML SW18mm, E MT3mm	ed but small to ily slighly 18mm, SL7mm, W17mm,
31WA2032	2017.0157.04	ST 09	1		Lithic Deb	1	interior flake	metavolcanic									
31WA2032	2 2017.0157.05	ST 13	1		Lithic Deb	1	bifacial thinning flake	g metavolcanic									
31WA2032	2017.0157.06	ST 18	1		Lithic Deb	1	interior flake	metavolcanic									
31WA2032	2017.0157.07	ST 20	1		Lithic Deb	1	interior flake	metavolcanic									
31WA2032	2017.0157.08	ST 21	1		Lithic Deb	1	bifacial thinning flake	g metavolcanic									

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Соі	ınt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2033	2017.0158.01	ST 01	1		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2034	2017.0159.01	ST 01	1		Lithic Biface	: 1	point	quartz				complete	indt stemmed			ML42mm, SL15m, SW14mm, BW11mm, MT11mm
31WA2034	2017.0159.02	ST 03	1		Lithic Deb	1	bifacial thinning flake	quartz								
31WA2034	2017.0159.02	ST 03	1		Lithic Deb	1	interior flake	quartzite								
31WA2034	2017.0159.03	ST 07	2		Lithic Deb	3	shatter	quartzite								
31WA2034	2017.0159.03	ST 07	2		NA Cer	1	body sherd	fine to medium sand temper		fabric impr ext, plain int			Badin/Yadkin series?			
31WA2034	2017.0159.04	ST 07	3		NA Cer	1	body sherd	very coarse sand temper		indt impr ext, plain int			Yadkin series?			
31WA2034	2017.0159.05	ST 09	2		Lithic Deb	1	shatter	quartzite								
31WA2034	2017.0159.05	ST 09	2		NA Cer	2	body sherd (1 with coil break)	very coarse sand temper		indt impr ext, plain int			Yadkin series?			
31WA2034	2017.0159.06	ST 09	3		Lithic Deb	2	interior flake	quartzite								
31WA2034	2017.0159.06	ST 09	3		NA Cer	4	body sherd	medium to coarse sand temper		plain ext, plain in	t		indt			1 with coil break and two less than 2cm maximum dimension
31WA2034	2017.0159.07	ST 12	2		Lithic Deb	1	interior flake	quartzite								

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31WA2034	2017.0159.07	ST 12	2		Lithic Deb	1	shatter	quartzite									
31WA2034	2017.0159.07	ST 12	2		NA Cer	1	body sherd (spalled/eroded)	coarse sand) temper		indt ext, plain int			indt				
31WA2034	2017.0159.08	ST 13	2		Lithic Deb	1	interior flake	quartz									
31WA2034	2017.0159.09	TU 01	1 1		Lithic Deb	1	interior flake	quartzite									
31WA2034	2017.0159.09	TU 01	1 1		Lithic Deb	3	interior flake	quartz									
31WA2034	2017.0159.10	TU 01	2 1		Lithic Deb	2	interior flake	quartzite									
31WA2034	2017.0159.10	TU 01	2 1		Lithic Deb	1	shatter	quartz									
31WA2034	2017.0159.11	TU 01	3 1		NA Cer	5	body sherd (1 with coil break)	medium to coarse sand temper		net-impr ext, plain int	1		indt			likely same or	similar vessel
31WA2034	2017.0159.12	TU 01	4 1		NA Cer	1	body sherd	medium to coarse sand temper		indt ext, plain int			indt				
31WA2035	2017.0160.01	ST 01	2		Lithic Deb	2	interior flake	quartz									
31WA2036	2017.0161.01	ST 01	1		NA Cer	1	body sherd	granule-sized quartz temper, some angular		indt ext, plain int			Yadkin series?				
31WA2037	2017.0162.01	ST 01	1		Lithic Deb	1	interior flake	plagioclase- quartz porphyritic rhyolite									

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)	
31WA2038	2017.0163.01	ST 01	2		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2038	2017.0163.02	ST 08	3		Lithic Deb	1	bifacial thinning flake	quartz									
31WA2038	2017.0163.02	ST 08	3		Lithic Deb	1	interior flake	quartz									
31WA2038	2017.0163.03	ST 09	1		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA2038	2017.0163.03	ST 09	1		Lithic Deb	1	interior flake	metavolcanic									
31WA2038	2017.0163.03	ST 09	1		Lithic Deb	3	interior flake	quartz									
31WA2038	2017.0163.04	ST 09	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2039 /2039**	2017.0164.01	ST 01	1		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2039 /2039**	2017.0164.02	ST 02	1		Lithic Deb	2	interior flake	quartz									
31WA2039 /2039**	2017.0164.03	ST 03	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2039 /2039**	2017.0164.03	ST 03	2		Lithic Deb	1	interior flake	quartz									
31WA2039 /2039**	2017.0164.04	ST 04	1		Bone	1	bone	fragment									

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31WA2039 /2039**	2017.0164.04	ST 04	1		Lithic Deb	5	interior flake	metavolcanic									
31WA2039 /2039**	2017.0164.05	ST 05	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2039 /2039**	2017.0164.06	ST 06	1		Lithic Deb	1	interior flake	metavolcanic									
31WA2039 /2039**	2017.0164.07	ST 06	2		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite									
31WA2039 /2039**	2017.0164.07	ST 06	2		Lithic Tool	1	retouched flake	quartz porphyritic rhyolite									
31WA2039 /2039**	2017.0164.08	ST 07	2		Lithic Deb	3	interior flake	metavolcanic									
31WA2039 /2039**	2017.0164.08	ST 07	2		Lithic Deb	1	interior flake	quartz									
31WA2039 /2039**	2017.0164.09	ST 08	2		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite									
31WA2039 /2039**	2017.0164.09	ST 08	2		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2039 /2039**	2017.0164.09	ST 08	2		Lithic Deb	3	interior flake	quartz									
31WA2039 /2039**	2017.0164.09	ST 08	2		Lithic Deb	1	shatter	quartz									
31WA2039 /2039**	2017.0164.10	ST 09	2		Lithic Deb	1	interior flake	metavolcanic									_

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2039 /2039**	2017.0164.11	ST 10	2		Brick	2	fragment									5.50g
31WA2039 /2039**	2017.0164.11	ST 10	2		Lithic Indt	1	fragment	quartz								
31WA2039 /2039**	2017.0164.12	ST 13	1		H Ceram	1	whiteware		rim fragment	blue edged	white and blue		edged	1830 - present	Miller et al. 2000	
31WA2039 /2039**	2017.0164.12	ST 13	1		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite								
31WA2039 /2039**	2017.0164.13	ST 13	2		Lithic Deb	2	bifacial thinning flake	metavolcanic								
31WA2039 /2039**	2017.0164.14	ST 14	2		Lithic Deb	1	interior flake	metavolcanic								
31WA2039 /2039**	2017.0164.15	ST 19	1		Lithic Deb	2	interior flake	quartz								
31WA2039 /2039**	2017.0164.16	ST 20	1		Lithic Deb	1	interior flake	quartz								
31WA2039 /2039**	2017.0164.17	ST 21	2		Lithic Deb	1	interior flake	quartz								
31WA2039 /2039**	2017.0164.17	ST 21	2		Lithic Tool	1	tested cobble?	quartzite								
31WA2039 /2039**	2017.0164.18	ST 23	1		Lithic Deb	1	interior flake	quartz porphyritic rhyolite								
31WA2039 /2039**	2017.0164.18	ST 23	1		Lithic Deb	1	interior flake	quartz								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cour	t Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2039 /2039**	2017.0164.19	ST 23	2		Lithic Deb	1	interior flake	quartz								
31WA2039 /2039**	2017.0164.20	ST 30	4		Lithic Deb	1	flake fragment	metavolcanic								
31WA2039 /2039**	2017.0164.21	ST 33	2		Lithic Deb	1	interior flake	metavolcanic								
31WA2039 /2039**	2017.0164.21	ST 33	2		Lithic Deb	2	interior flake	quartz								
31WA2039 /2039**	2017.0164.22	ST 35	2		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2039 /2039**	2017.0164.22	ST 35	2		Lithic Deb	3	interior flake	quartz								
31WA2039 /2039**	2017.0164.23	ST 36	2		Lithic Deb	1	interior flake	quartz								
31WA2039 /2039**	2017.0164.24	ST 39	2		Lithic Deb	2	interior flake	metavolcanic								
31WA2039 /2039**	2017.0164.25	ST 42	1		Lithic Deb	1	interior flake	metavolcanic								
31WA2039 /2039**	2017.0164.26	ST 42	2		Lithic Deb	1	interior flake	quartz								
31WA2039 /2039**	2017.0164.26	ST 42	2		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2039 /2039**	2017.0164.27	ST 43	2		Lithic Biface	1	point	aphyric rhyolite				tip only	indt			

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cour	t Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight (g)	Comment
31WA2039 /2039**	2017.0164.27	ST 43	2		Lithic Deb	1	interior flake	quartz									
31WA2039 /2039**	2017.0164.28	ST 45	1		Lithic Deb	1	interior flake	quartz									
31WA2039 /2039**	2017.0164.29	ST 45	2		Lithic Biface	1	point	metavolcanic				tip missing	Big Sandy Side Notched				ML(46mm), SL9mm, SW24mm, BW23mm, MT6mm
31WA2039 /2039**	2017.0164.29	ST 45	2		Lithic Deb	1	interior flake	quartz									
31WA2039 /2039**	2017.0164.30	ST 46	2		Lithic Deb	2	interior flake	metavolcanic									
31WA2039 /2039**	2017.0164.31	ST 48	2		Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite									
31WA2039 /2039**	2017.0164.31	ST 48	2		Lithic Deb	2	interior flake	quartz porphyritic rhyolite									
31WA2039 /2039**	2017.0164.32	ST 49	2		Lithic Deb	2	bifacial thinning flake	metavolcanic									
31WA2039 /2039**	2017.0164.32	ST 49	2		Lithic Deb	1	interior flake	quartz									
31WA2039 /2039**	2017.0164.33	ST 50	2		Lithic Deb	2	interior flake	metavolcanic									
31WA2039 /2039**	2017.0164.34	ST 54	1		Lithic Biface	1	point	metavolcanic				midsection only	indt				
31WA2039 /2039**	2017.0164.35	ST 55	1		H Ceram	1	whiteware		rim fragment	green, blue, and black hand painte floral design	white, green, d blue, and black		hand painted polychrome	1830 - present	Miller et al. 2000		

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cour	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2039 /2039**	2017.0164.36	ST 58	1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA2039 /2039**	2017.0164.36	ST 58	1		Lithic Deb	2	interior flake	metavolcanic								
31WA2039 /2039**	2017.0164.37	ST 60	1		Lithic Deb	2	interior flake	quartz								
31WA2039 /2039**	2017.0164.38	ST 62	1		Lithic Deb	1	interior flake	metavolcanic								
31WA2039 /2039**	2017.0164.38	ST 62	1		Lithic Deb	1	interior flake	quartz								
31WA2039 /2039**	2017.0164.39	ST 64	1		Lithic Deb	3	interior flake	quartz								
31WA2039 /2039**	2017.0164.40	ST 66	1		Lithic Biface	1	late stage biface	plagioclase porphyritic rhyolite								
31WA2039 /2039**	2017.0164.40	ST 66	1		Lithic Deb	1	interior flake	metavolcanic								
31WA2039 /2039**	2017.0164.41	ST 68	1		Lithic Deb	2	bifacial thinning flake	aphyric rhyolite								
31WA2039 /2039**	2017.0164.41	ST 68	1		Lithic Deb	3	bifacial thinning flake	metavolcanic								
31WA2039 /2039**	2017.0164.41	ST 68	1		Lithic Deb	3	interior flake	quartz								
31WA2039 /2039**	2017.0164.41	ST 68	1		Lithic Deb	1	interior flake	metavolcanic								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight (g)	Comment
31WA2039 /2039**	2017.0164.42	ST 69	1		Lithic Biface	1	point	quartz				tip missing	Savannah River Stemmed				SL12mm, SW38mm, BW18mm
31WA2039 /2039**	2017.0164.42	ST 69	1		Lithic Deb	1	interior flake	quartz									
31WA2039 /2039**	2017.0164.42	ST 69	1		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite									
31WA2039 /2039**	2017.0164.42	ST 69	1		Lithic Deb	1	interior flake	metavolcanic									
31WA2039 /2039**	2017.0164.43	ST 71	1		Lithic Deb	2	interior flake	quartz									
31WA2039 /2039**	2017.0164.43	ST 71	1		Lithic Deb	2	interior flake	metavolcanic									
31WA2039 /2039**	2017.0164.44	ST 71	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2039 /2039**	2017.0164.44	ST 71	2		Lithic Deb	2	interior flake	quartz									
31WA2039 /2039**	2017.0164.44	ST 71	2		Lithic Indt	1	fragment	quartz									
31WA2039 /2039**	2017.0164.45	ST 72	2		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2039 /2039**	2017.0164.46	ST 74	1		Lithic Deb	1	interior flake	metavolcanic									
31WA2039 /2039**	2017.0164.47	TU 01	1 1		Lithic Deb	1	bifacial thinning flake	metavolcanic									

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cour	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2039 /2039**	2017.0164.47	TU 01	1 1		Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite								
31WA2039 /2039**	2017.0164.47	TU 01	1 1		Lithic Deb	1	bifacial thinning flake	plagioclase- quartz porphyritic rhyolite								
31WA2039 /2039**	2017.0164.47	TU 01	1 1		Lithic Deb	6	interior flake	quartz								
31WA2039 /2039**	2017.0164.47	TU 01	1 1		Lithic Deb	1	interior flake	metavolcanic								
31WA2039 /2039**	2017.0164.48	TU 01	1 2		Lithic Deb	9	interior flake	quartz								
31WA2039 /2039**	2017.0164.48	TU 01	1 2		Lithic Deb	2	interior flake	aphyric rhyolite								
31WA2039 /2039**	2017.0164.48	TU 01	1 2		Lithic Deb	4	interior flake	metavolcanic								
31WA2039 /2039**	2017.0164.49	TU 01	1 3		Lithic Deb	3	bifacial thinning flake	metavolcanic								
31WA2039 /2039**	2017.0164.49	TU 01	1 3		Lithic Deb	8	interior flake	quartz								
31WA2039 /2039**	2017.0164.49	TU 01	1 3		Lithic Deb	2	interior flake	metavolcanic								
31WA2039 /2039**	2017.0164.49	TU 01	1 3		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2039 /2039**	2017.0164.50	TU 01	1 4		Lithic Deb	13	bifacial thinning flake	metavolcanic								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Coun	t Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2039 /2039**	2017.0164.50	TU 01	1 4		Lithic Deb	1	bifacial thinning flake	quartz								
31WA2039 /2039**	2017.0164.50	TU 01	1 4		Lithic Deb	22	interior flake	quartz								
31WA2039 /2039**	2017.0164.50	TU 01	1 4		Lithic Deb	7	interior flake	metavolcanic								
31WA2039 /2039**	2017.0164.51	TU 01	2 1		Lithic Deb	2	bifacial thinning flake	quartz								
31WA2039 /2039**	2017.0164.51	TU 01	2 1		Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite								
31WA2039 /2039**	2017.0164.51	TU 01	2 1		Lithic Deb	3	bifacial thinning flake	metavolcanic								
31WA2039 /2039**	2017.0164.51	TU 01	2 1		Lithic Deb	20	interior flake	quartz								
31WA2039 /2039**	2017.0164.51	TU 01	2 1		Lithic Deb	10	interior flake	metavolcanic								
31WA2039 /2039**	2017.0164.51	TU 01	2 1		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2039 /2039**	2017.0164.52	TU 01	2 2		Lithic Deb	4	bifacial thinning flake	metavolcanic								
31WA2039 /2039**	2017.0164.52	TU 01	2 2		Lithic Deb	7	interior flake	quartz								
31WA2039 /2039**	2017.0164.53	TU 01	2 3		Lithic Deb	2	bifacial thinning flake	metavolcanic								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2039 /2039**	2017.0164.53	TU 01	2 3		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2039 /2039**	2017.0164.53	TU 01	2 3		Lithic Deb	8	interior flake	quartz								
31WA2039 /2039**	2017.0164.53	TU 01	2 3		Lithic Deb	13	interior flake	metavolcanic								
31WA2039 /2039**	2017.0164.54	TU 01	2 4		Lithic Deb	2	bifacial thinning flake	metavolcanic								
31WA2039 /2039**	2017.0164.54	TU 01	2 4		Lithic Deb	6	interior flake	quartz								
31WA2039 /2039**	2017.0164.54	TU 01	2 4		Lithic Deb	4	interior flake	metavolcanic								
31WA2039 /2039**	2017.0164.55	TU 01	2 5		Lithic Deb	1	interior flake	metavolcanic								
31WA2039 /2039**	2017.0164.55	TU 01	2 5		Lithic Deb	2	interior flake	quartz								
31WA2039 /2039**	2017.0164.56	TU 02	1 1		Lithic Deb	4	interior flake	quartz								
31WA2039 /2039**	2017.0164.56	TU 02	1 1		Lithic Deb	4	interior flake	metavolcanic								
31WA2039 /2039**	2017.0164.57	TU 02	1 2		Lithic Deb	3	interior flake	quartz								
31WA2039 /2039**	2017.0164.57	TU 02	1 2		Lithic Deb	5	interior flake	metavolcanic								

Site	Accession #	ST/Unit or Fea.	Zone Le	evel Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2039 /2039**	2017.0164.57	TU 02	1 2		Lithic Deb	1	shatter	quartz								
31WA2039 /2039**	2017.0164.58	TU 02	1 3		Lithic Deb	5	interior flake	quartz								
31WA2039 /2039**	2017.0164.58	TU 02	1 3		Lithic Deb	2	interior flake	metavolcanic								
31WA2039 /2039**	2017.0164.58	TU 02	1 3		Lithic Deb	1	interior flake	plagioclase- quartz porphyritic rhyolite								
31WA2039 /2039**	2017.0164.59	TU 02	2 1		Lithic Deb	7	interior flake	quartz								
31WA2039 /2039**	2017.0164.59	TU 02	2 1		Lithic Deb	1	interior flake	quartzite								
31WA2039 /2039**	2017.0164.59	TU 02	2 1		Lithic Tool	1	retouched flake	plagioclase- quartz porphyritic rhyolite								
31WA2039 /2039**	2017.0164.61	TU 02	2 2	plowscar	Lithic Deb	1	interior flake	quartz								
31WA2039 /2039**	2017.0164.60	TU 02	2 2		Lithic Deb	2	interior flake	quartz								
31WA2039 /2039**	2017.0164.60	TU 02	2 2		Lithic Deb	1	interior flake	metavolcanic								
31WA2039 /2039**	2017.0164.62	TU 02	2 3		Lithic Deb	3	interior flake	quartz								
31WA2039 /2039**	2017.0164.63	TU 03	1 1		Lithic Deb	2	bifacial thinning flake	quartz								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Coun	t Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2039 /2039**	2017.0164.63	TU 03	1 1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA2039 /2039**	2017.0164.63	TU 03	1 1		Lithic Deb	1	interior flake	metavolcanic								
31WA2039 /2039**	2017.0164.63	TU 03	1 1		Lithic Deb	7	interior flake	quartz								
31WA2039 /2039**	2017.0164.64	TU 03	1 2		Lithic Deb	6	interior flake	quartz								
31WA2039 /2039**	2017.0164.64	TU 03	1 2		Lithic Deb	2	interior flake	metavolcanic								
31WA2039 /2039**	2017.0164.64	TU 03	1 2		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2039 /2039**	2017.0164.65	TU 03	2 1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA2039 /2039**	2017.0164.65	TU 03	2 1		Lithic Deb	1	interior flake	quartzite								
31WA2039 /2039**	2017.0164.65	TU 03	2 1		Lithic Deb	17	interior flake	quartz								
31WA2039 /2039**	2017.0164.65	TU 03	2 1		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2039 /2039**	2017.0164.65	TU 03	2 1		Lithic Indt	1	fragment	quartzite								
31WA2039 /2039**	2017.0164.66	TU 03	2 2		Lithic Deb	3	interior flake	quartzite								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2039 /2039**	2017.0164.66	TU 03	2 2		Lithic Deb	1	interior flake	metavolcanic								
31WA2039 /2039**	2017.0164.66	TU 03	2 2		Lithic Deb	17	interior flake	quartz								
31WA2039 /2039**	2017.0164.67	TU 03	2 3		Lithic Deb	18	interior flake	quartz								
31WA2039 /2039**	2017.0164.67	TU 03	2 3		Lithic Deb	1	interior flake	quartzite								
31WA2039 /2039**	2017.0164.68	TU 03	2 4		Lithic Deb	2	interior flake	quartz								
31WA2040	2017.0165.01	ST 01	1		Lithic Deb	1	flake fragment	metavolcanic								
31WA2040	2017.0165.02	ST 06	2		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA2040	2017.0165.02	ST 06	2		Lithic Tool	1	retouched flake?	? quartz								
31WA2040	2017.0165.03	ST 09	2		Lithic Biface	1	point	plagioclase porphyritic rhyolite				tip only	indt			
31WA2041	2017.0166.01	ST 01	2		Lithic Deb	1	interior flake	metavolcanic								
31WA2041	2017.0166.02	ST 05	1		Lithic Deb	1	interior flake	metavolcanic								
31WA2042	2017.0167.01	ST 01	2		Lithic Deb	1	bifacial thinning flake	metavolcanic								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2042	2017.0167.02	ST 05	1		Lithic Deb	1	interior flake	metavolcanic								
31WA2042	2017.0167.03	ST 06	1		Lithic Deb	1	interior flake	quartz								
31WA2042	2017.0167.04	ST 07	1		Lithic Deb	1	interior flake	quartz								
31WA2042	2017.0167.05	ST 18	2		Lithic Deb	1	bifacial thinning flake	plagioclase- quartz porphyritic rhyolite								
31WA2043	2017.0168.01	ST 01	2		Lithic Deb	1	interior flake	metavolcanic								
31WA2044	2017.0169.01	General Surface	surf		Lithic Deb	1	bifacial thinning flake	quartz								
31WA2044	2017.0169.01	General Surface	surf		Lithic Deb	1	interior flake	plagioclase- quartz porphyritic rhyolite								
31WA2044	2017.0169.01	General Surface	surf		Lithic Deb	1	interior flake	quartz								
31WA2044	2017.0169.02	ST 01	2		Lithic Deb	1	interior flake	quartz								
31WA2044	2017.0169.03	ST 03	2		Lithic Deb	1	interior flake	metavolcanic								
31WA2044	2017.0169.04	ST 04	1		Lithic Deb	2	interior flake	quartz								
31WA2044	2017.0169.05	ST 09	1/2 interfa ce		Lithic Deb	1	interior flake	plagioclase- quartz porphyritic rhyolite								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2044	2017.0169.05	ST 09	1/2 interfa ce		Lithic Deb	1	shatter	quartz								
31WA2044	2017.0169.06	ST 12	1/2 interfa ce		Lithic Deb	1	interior flake	quartz								
31WA2044	2017.0169.07	ST 13	1/2 interfa ce		Lithic Deb	1	interior flake	quartzite								
31WA2044	2017.0169.07	ST 13	1/2 interfa ce		Lithic Tool	1	retouched flake	quartzite								
31WA2045	2017.0170.01	ST 01	1		Lithic Deb	2	interior flake	quartz								
31WA2045	2017.0170.01	ST 01	1		Lithic Deb	1	shatter	quartz								
31WA2045	2017.0170.02	ST 01	2		Lithic Deb	4	interior flake	quartz								
31WA2045	2017.0170.02	ST 01	2		Lithic Deb	2	shatter	quartz								
31WA2046	2017.0171.01	ST 01	2		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2046	2017.0171.02	ST 05	2		Lithic Deb	1	interior flake	metavolcanic								
31WA2047	2017.0172.01	ST 01	2		Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite								
31WA2047	2017.0172.01	ST 01	2		Lithic Deb	1	interior flake	aphyric rhyolite								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cour	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2048 /2048**	3 2017.0173.01	General Surface	surf		Glass	1	container glass		body fragment		colorless					
31WA2048 /2048**	3 2017.0173.01	General Surface	surf		Glass	1	container glass		finish		colorless					double ring finish
31WA2048 /2048**	3 2017.0173.01	General Surface	surf		H Ceram	1	whiteware		rim fragment	black transfer printed	white and black	k heat altered/melted	transfer printed	1830 - present	Miller et al. 2000	
31WA2048 /2048**	2017.0173.01	General Surface	surf		H Ceram	1	whiteware		rim fragment	blue edged	white and blue		edged	1830 - present	Miller et al. 2000	
31WA2048 /2048**	3 2017.0173.01	General Surface	surf		H Ceram	1	whiteware		body fragment		white	heat altered/melted		1830 - present	Miller et al. 2000	
31WA2048 /2048**	3 2017.0173.01	General Surface	surf		Lithic Biface	1	biface fragment	metavolcanic								
31WA2048 /2048**	3 2017.0173.01	General Surface	surf		Lithic Biface	1	biface fragment	quartz								
31WA2048 /2048**	3 2017.0173.01	General Surface	surf		Lithic Biface	1	point	plagioclase porphyritic rhyolite				tip missing	Savanah River Stemmed			very narrow stem and blade, SL15mm, SW29mm, Bw10mm, MT8mm
31WA2048 /2048**	3 2017.0173.01	General Surface	surf		Lithic Biface	1	point or drill	metavolcanic				tip only	indt			
31WA2048 /2048**	3 2017.0173.01	General Surface	surf		Lithic Deb	3	interior flake	metavolcanic								
31WA2048 /2048**	3 2017.0173.01	General Surface	surf		Lithic Deb	2	interior flake	plagioclase- quartz porphyritic rhyolite								
31WA2048 /2048**	3 2017.0173.01	General Surface	surf		Lithic Deb	6	interior flake	quartz								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)	
31WA2048 /2048**	2017.0173.01	General Surface	surf		Lithic Deb	1	interior flake	quartz porphyritic rhyolite									
31WA2048 /2048**	2017.0173.01	General Surface	surf		Lithic Deb	2	interior flake	metavolcanic									
31WA2048 /2048**	2017.0173.01	General Surface	surf		Lithic Tool	1	retouched flake	? quartz									
31WA2048 /2048**	2017.0173.02	Shovel Test	t 1 4		Lithic Deb	1	interior flake	metavolcanic									
31WA2049	2017.0174.01	ST 01	2		Lithic Deb	3	interior flake	quartz									
31WA2049	2017.0174.01	ST 01	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2049	2017.0174.02	ST 05	1		Lithic Deb	2	interior flake	metavolcanic									
31WA2049	2017.0174.03	ST 05	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2049	2017.0174.04	ST 07	1		Lithic Deb	1	interior flake	metavolcanic									
31WA2049	2017.0174.05	ST 08	1		Lithic Deb	3	interior flake	quartz									
31WA2049	2017.0174.06	ST 09	1		Lithic Deb	1	shatter	quartz									
31WA2049	2017.0174.07	ST 16	1		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite									

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)	
31WA2049	2017.0174.07	ST 16	1		Lithic Deb	3	interior flake	metavolcanic									
31WA2049	2017.0174.08	ST 16	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2049	2017.0174.09	ST 20	1		Lithic Deb	1	bifacial thinning flake	quartz porphyritic rhyolite									
31WA2049	2017.0174.09	ST 20	1		Lithic Deb	1	flake fragment	metavolcanic									
31WA2049	2017.0174.10	ST 26	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2049	2017.0174.11	ST 34	1		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA2049	2017.0174.11	ST 34	1		Lithic Deb	1	interior flake	quartz									
31WA2049	2017.0174.12	ST 38	1		Lithic Deb	1	flake fragment	aphyric rhyolite									
31WA2050	2017.0175.01	ST 01	1		Lithic Deb	1	interior flake	metavolcanic									
31WA2051	2017.0176.01	ST 01	2		Lithic Deb	2	interior flake	quartz									
31WA2052	2017.0177.01	ST 01	2		Lithic Deb	1	interior flake	plagioclase- quartz porphyritic rhyolite									
31WA2053	2017.0178.01	ST 01	2		Lithic Deb	1	bifacial thinning flake	metavolcanic									

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2054 **	2017.0179.01	ST 01	1		H Ceram	1	stoneware (North American)		body fragment	gray salt glazed	gray		gray bodied			
31WA2054 **	2017.0179.01	ST 01	1		H Ceram	1	stoneware (North American)		body fragment	Albany slipped int gray salt glazed ex	, buff, gray, and xt black		buff bodied			
31WA2054 **	2017.0179.01	ST 01	1		H Ceram	1	whiteware		rim fragment		white			1830 - present	Miller et al. 2000	
31WA2054 **	2017.0179.01	ST 01	1		H Ceram	1	whiteware		rim fragment	green edged	white and green		edged	1830 - present	Miller et al. 2000	
31WA2055	2017.0180.01	ST 01	2		Lithic Deb	1	interior flake	metavolcanic								
31WA2056	2017.0181.01	ST 01	2		Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite								
31WA2056	2017.0181.01	ST 01	2		Lithic Deb	1	interior flake	quartz								
31WA2056	2017.0181.01	ST 01	2		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2056	2017.0181.02	ST 05	2		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA2057	2017.0182.01	ST 01	2		Lithic Deb	1	interior flake	quartz								
31WA2058	2017.0183.01	ST 01	3		Lithic Deb	1	interior flake	metavolcanic								
31WA2059	2017.0184.01	ST 01	2		Lithic Deb	3	interior flake	quartz								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Со	int Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)	
31WA2060	2017.0185.01	ST 01	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2060	2017.0185.02	ST 07	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2061	2017.0187.01	ST 01	1		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite									
31WA2061	2017.0187.01	ST 01	1		Lithic Deb	3	interior flake	metavolcanic									
31WA2061	2017.0187.02	ST 05	1		Lithic Deb	1	bifacial thinning flake	g quartz porphyritic rhyolite									
31WA2061	2017.0187.02	ST 05	1		Lithic Deb	1	interior flake	metavolcanic									
31WA2061	2017.0187.02	ST 05	1		Lithic Deb	1	interior flake	quartz									
31WA2061	2017.0187.03	ST 07	1		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2061	2017.0187.04	ST 08	1		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite									
31WA2061	2017.0187.05	ST 09	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2061	2017.0187.05	ST 09	2		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2061	2017.0187.32	ST 104	2		Lithic Deb	3	interior flake	quartz									

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)	
31WA2061	2017.0187.33	ST 107	2		Lithic Deb	1	bifacial thinning flake	; quartz									
31WA2061	2017.0187.34	ST 109	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2061	2017.0187.34	ST 109	2		Lithic Indt	1	fragment	indeterminate									
31WA2061	2017.0187.06	ST 11	2		Lithic Deb	1	interior flake	quartz									
31WA2061	2017.0187.35	ST 114	2		Lithic Deb	1	interior flake	quartz									
31WA2061	2017.0187.07	ST 13	1		Lithic Deb	1	interior flake	plagioclase- quartz porphyritic rhyolite									
31WA2061	2017.0187.08	ST 19	2		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2061	2017.0187.09	ST 20	2		Lithic Deb	2	interior flake	quartz									
31WA2061	2017.0187.10	ST 23	1		Lithic Deb	1	interior flake	quartz									
31WA2061	2017.0187.11	ST 25	1		Lithic Deb	2	interior flake	quartz									
31WA2061	2017.0187.12	ST 26	1		H Ceram	1	whiteware		rim fragment		white			1830 - present	Miller et al. 2000		
31WA2061	2017.0187.12	ST 26	1		Lithic Deb	2	interior flake	quartz									

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2061	2017.0187.13	ST 32	1		Lithic Deb	2	interior flake	quartz								
31WA2061	2017.0187.13	ST 32	1		Lithic Deb	1	interior flake	metavolcanic								
31WA2061	2017.0187.13	ST 32	1		Lithic Deb	2	interior flake	aphyric rhyolite								
31WA2061	2017.0187.14	ST 35	1		Lithic Deb	1	interior flake	quartz								
31WA2061	2017.0187.15	ST 37	2		Lithic Deb	1	interior flake	quartz								
31WA2061	2017.0187.15	ST 37	2		Lithic Indt	1	fragment	quartz								
31WA2061	2017.0187.16	ST 40	1		Lithic Deb	3	interior flake	quartz								
31WA2061	2017.0187.16	ST 40	1		Lithic Deb	1	interior flake	metavolcanic								
31WA2061	2017.0187.17	ST 41	2		Lithic Deb	1	flake fragment	aphyric rhyolite								
31WA2061	2017.0187.17	ST 41	2		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2061	2017.0187.18	ST 49	1		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2061	2017.0187.18	ST 49	1		Lithic Deb	1	interior flake	metavolcanic								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2061	2017.0187.19	ST 49	2		Lithic Deb	1	interior flake	quartz								
31WA2061	2017.0187.20	ST 54	1		Lithic Deb	1	interior flake	quartz								
31WA2061	2017.0187.21	ST 59	1		Lithic Deb	2	interior flake	quartz								
31WA2061	2017.0187.21	ST 59	1		Lithic Deb	2	interior flake	metavolcanic								
31WA2061	2017.0187.22	ST 73	2		Lithic Deb	1	bifacial thinning flake	g quartz porphyritic rhyolite								
31WA2061	2017.0187.22	ST 73	2		Lithic Deb	1	bifacial thinning flake	g metavolcanic								
31WA2061	2017.0187.22	ST 73	2		Lithic Deb	2	interior flake	metavolcanic								
31WA2061	2017.0187.22	ST 73	2		Lithic Deb	1	interior flake	quartz porphyritic rhyolite								
31WA2061	2017.0187.23	ST 77	1		Lithic Deb	1	interior flake	metavolcanic								
31WA2061	2017.0187.24	ST 78	1		Lithic Deb	1	bifacial thinning flake	g metavolcanic								
31WA2061	2017.0187.25	ST 85	1		Lithic Deb	1	bifacial thinning flake	g metavolcanic								
31WA2061	2017.0187.26	ST 85	2		Lithic Deb	1	interior flake	metavolcanic								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)	
31WA2061	2017.0187.27	ST 86	1		Lithic Deb	2	interior flake	aphyric rhyolite									
31WA2061	2017.0187.28	ST 90	1		Lithic Deb	1	bifacial thinning flake	quartz									
31WA2061	2017.0187.29	ST 93	2		Lithic Deb	1	interior flake	quartz									
31WA2061	2017.0187.29	ST 93	2		Lithic Deb	3	interior flake	metavolcanic									
31WA2061	2017.0187.30	ST 95	2		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA2061	2017.0187.30	ST 95	2		Lithic Deb	2	interior flake	metavolcanic									
31WA2061	2017.0187.30	ST 95	2		Lithic Deb	2	interior flake	quartz									
31WA2061	2017.0187.30	ST 95	2		Lithic Deb	2	interior flake	plagioclase porphyritic rhyolite									
31WA2061	2017.0187.31	ST 97	2		Lithic Deb	1	interior flake	quartz									
31WA2061	2017.0187.36	TU 01	1 1		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA2061	2017.0187.36	TU 01	1 1		Lithic Deb	2	interior flake	quartz									
31WA2061	2017.0187.37	TU 01	1 2		Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite									

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Coun	t Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2061	2017.0187.37	TU 01	1 2		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA2061	2017.0187.37	TU 01	1 2		Lithic Deb	1	bifacial thinning flake	quartz porphyritic rhyolite								
31WA2061	2017.0187.37	TU 01	1 2		Lithic Deb	3	interior flake	plagioclase porphyritic rhyolite								
31WA2061	2017.0187.37	TU 01	1 2		Lithic Deb	3	interior flake	quartz								
31WA2061	2017.0187.37	TU 01	1 2		Lithic Deb	2	interior flake	aphyric rhyolite								
31WA2061	2017.0187.37	TU 01	1 2		Lithic Deb	5	interior flake	metavolcanic								
31WA2061	2017.0187.37	TU 01	1 2		Lithic Deb	4	interior flake	plagioclase- quartz porphyritic rhyolite								
31WA2061	2017.0187.38	TU 01	1 3		Lithic Deb	2	bifacial thinning flake	metavolcanic								
31WA2061	2017.0187.38	TU 01	1 3		Lithic Deb	1	bifacial thinning flake	quartz porphyritic rhyolite								
31WA2061	2017.0187.38	TU 01	1 3		Lithic Deb	4	interior flake	plagioclase- quartz porphyritic rhyolite								
31WA2061	2017.0187.38	TU 01	1 3		Lithic Deb	2	interior flake	plagioclase porphyritic rhyolite								
31WA2061	2017.0187.38	TU 01	1 3		Lithic Deb	1	interior flake	quartz								

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31WA2061	2017.0187.38	TU 01	1 3		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2061	2017.0187.38	TU 01	1 3		Lithic Deb	5	interior flake	metavolcanic								
31WA2061	2017.0187.39	TU 01	2 1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA2061	2017.0187.39	TU 01	2 1		Lithic Deb	3	interior flake	plagioclase- quartz porphyritic rhyolite								
31WA2061	2017.0187.39	TU 01	2 1		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2061	2017.0187.39	TU 01	2 1		Lithic Deb	2	interior flake	metavolcanic								
31WA2061	2017.0187.40	TU 02	1 1		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite								
31WA2061	2017.0187.40	TU 02	1 1		Lithic Deb	4	interior flake	quartz								
31WA2061	2017.0187.40	TU 02	1 1		Lithic Deb	2	interior flake	metavolcanic								
31WA2061	2017.0187.40	TU 02	1 1		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite								
31WA2061	2017.0187.41	TU 02	2 1		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite								
31WA2061	2017.0187.41	TU 02	2 1		Lithic Deb	7	interior flake	metavolcanic								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cour	t Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2061	2017.0187.41	TU 02	2 1		Lithic Deb	2	interior flake	quartz								
31WA2061	2017.0187.42	TU 02	2 2		Lithic Deb	3	interior flake	metavolcanic								
31WA2061	2017.0187.42	TU 02	2 2		Lithic Deb	2	interior flake	plagioclase porphyritic rhyolite								
31WA2061	2017.0187.42	TU 02	2 2		Lithic Deb	1	interior flake	quartz								
31WA2061	2017.0187.43	TU 02	2 3		Lithic Deb	1	interior flake	quartz								
31WA2061	2017.0187.43	TU 02	2 3		Lithic Deb	2	interior flake	metavolcanic								
31WA2061	2017.0187.43	TU 02	2 3		Lithic Deb	3	interior flake	aphyric rhyolite								
31WA2062 /2062**	2017.0188.01	ST 02	1	judgement 1	a H Ceram	1	stoneware (North American)		body fragment	Albany slipped in Bristol glazed ext	t, white and brown	Α	Albany Bristol	1890s-20th c.	Stelle 2001 (http://virtual.parkland .edu/lstelle1/len/archgu ide/documents/arcguid e.htm)	
31WA2062 /2062**	2017.0188.02	ST 05	1	judgement 1	a Lithic Deb	1	interior flake	quartz								
31WA2062 /2062**	2017.0188.03	ST 09	1		Lithic Deb	1	interior flake	quartz								
31WA2062 /2062**	2017.0188.04	ST 09	2		Lithic Biface	1	biface fragment	quartz								
31WA2062 /2062**	2017.0188.04	ST 09	2		Lithic Deb	2	interior flake	metavolcanic								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2062 /2062**	2017.0188.05	ST 10	2		H Misc	1	indt	iron	fragment			corroded				
31WA2062 /2062**	2017.0188.06	ST 11	2		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2062 /2062**	2017.0188.06	ST 11	2		Lithic Deb	1	interior flake	quartz								
31WA2063	2017.0189.01	ST 01	2		Lithic Deb	2	bifacial thinning flake	plagioclase- quartz porphyritic rhyolite								
31WA2063	2017.0189.01	ST 01	2		Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite								
31WA2063	2017.0189.01	ST 01	2		Lithic Deb	5	interior flake	metavolcanic								
31WA2063	2017.0189.01	ST 01	2		Lithic Deb	1	interior flake	plagioclase- quartz porphyritic rhyolite								
31WA2063	2017.0189.01	ST 01	2		Lithic Deb	1	interior flake	quartz								
31WA2063	2017.0189.02	ST 02	2		Lithic Deb	1	interior flake	metavolcanic								
31WA2063	2017.0189.02	ST 02	2		Lithic Deb	1	interior flake	quartz								
31WA2063	2017.0189.02	ST 02	2		NA Cer	1	body sherd	medium sand temper		plain ext and int		in	dt			barely 2 cm max dimension
31WA2063	2017.0189.03	ST 12	2		Lithic Deb	1	interior flake	quartz								
Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
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31WA2063	2017.0189.03	ST 12	2		NA Cer	1	sherd under 2cm max dimension						indt			2 pieces refit; still very small
31WA2064	2017.0190.01	ST 01	1		Lithic Biface	1	point	plagioclase porphyritic rhyolite				midsection only	indt			
31WA2065	2017.0191.01	ST 01	1		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2065	2017.0191.02	ST 09	2		NA Cer	1	sherd under 2cm max dimension	coarse sand temper visible		indt impr, plain int			indt			
31WA2065	2017.0191.03	ST 14	2		Lithic Deb	2	interior flake	aphyric rhyolite								
31WA2065	2017.0191.03	ST 14	2		NA Cer	3	body sherd (2 refitrecent break)	coarse sand to granule-sized quartz temper		fabric impr ext, plain int (smaller sherd has plain exterior)			Yadkin series			
31WA2065	2017.0191.04	ST 17	2		Lithic Deb	1	interior flake	quartz								
31WA2066 /2066**	2017.0192.01	General Surface	surf		H Ceram	1	porcelain		rim fragment		white					
31WA2066 /2066**	2017.0192.01	General Surface	surf		H Ceram	1	stoneware (North American)		body fragment	salt glazed exterior	r gray		gray bodied			
31WA2066 /2066**	2017.0192.01	General Surface	surf		H Ceram	2	stoneware (North American)		body fragment	Albany slipped int, Bristol glazed ext	white and black	k	Albany Bristol	1890s-20th c.	Stelle 2001 (http://virtual.parkland .edu/lstelle1/len/archgu ide/documents/arcguid e.htm)	
31WA2066 /2066**	2017.0192.01	General Surface	surf		H Ceram	1	whiteware		base/footring fragment		white			1830 - present	Miller et al. 2000	
31WA2066 /2066**	2017.0192.01	General Surface	surf		H Ceram	1	whiteware		rim fragment	pink and green floral decal	white, pink, and green		decal decorated/ "decalcomania"	1830 - present	Miller et al. 2000	

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cour	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2066 /2066**	2017.0192.01	General Surface	surf		H Ceram	2	whiteware		base/footring fragment	blue transfer printed	white and blue		Blue Willow	1830 - present	Miller et al. 2000	
31WA2066 /2066**	2017.0192.01	General Surface	surf		H Ceram	1	whiteware		body fragment	blue transfer printed	white and blue		transfer printed	1830 - present	Miller et al. 2000	
31WA2066 /2066**	2017.0192.01	General Surface	surf		H Ceram	1	whiteware		body fragment	pink transfer printed	white and pink		transfer printed	1830 - present	Miller et al. 2000	
31WA2066 /2066**	2017.0192.01	General Surface	surf		H Ceram	1	whiteware		rim fragment	blue edged, incised straight lines, unscalloped	white and blue		edged	1830 - present	Miller et al. 2000	
31WA2066 /2066**	2017.0192.01	General Surface	surf		H Ceram	1	whiteware		base fragment	black transfer printed maker's mark	white and black		Homer Laughlin	1877 - present	https://www.carnegie.l ib.oh.us/homer	
31WA2066 /2066**	2017.0192.01	General Surface	surf		Lithic Biface	1	biface	metavolcanic								
31WA2066 /2066**	2017.0192.01	General Surface	surf		Lithic Biface	1	biface	metavolcanic								
31WA2066 /2066**	2017.0192.01	General Surface	surf		Lithic Biface	1	biface fragment	metavolcanic								
31WA2066 /2066**	2017.0192.01	General Surface	surf		Lithic Biface	1	biface fragment	quartz								
31WA2066 /2066**	2017.0192.01	General Surface	surf		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite								
31WA2066 /2066**	2017.0192.01	General Surface	surf		Lithic Deb	8	bifacial thinning flake	g metavolcanic								
31WA2066 /2066**	2017.0192.01	General Surface	surf		Lithic Deb	3	bifacial thinning flake	g quartz								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2066 /2066**	2017.0192.01	General Surface	surf		Lithic Deb	1	decortication flake	quartz								
31WA2066 /2066**	2017.0192.01	General Surface	surf		Lithic Deb	1	flake fragment	aphyric rhyolite								
31WA2066 /2066**	2017.0192.01	General Surface	surf		Lithic Deb	15	interior flake	metavolcanic								
31WA2066 /2066**	2017.0192.01	General Surface	surf		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2066 /2066**	2017.0192.01	General Surface	surf		Lithic Deb	2	interior flake	plagioclase porphyritic rhyolite								
31WA2066 /2066**	2017.0192.01	General Surface	surf		Lithic Deb	62	interior flake	quartz								
31WA2066 /2066**	2017.0192.01	General Surface	surf		Lithic Deb	5	shatter	quartz								
31WA2066 /2066**	2017.0192.01	General Surface	surf		Lithic Indt	1	fragment	plagioclase porphyritic rhyolite								
31WA2066 /2066**	2017.0192.01	General Surface	surf		Lithic Indt	1	fragment	quartz								
31WA2066 /2066**	2017.0192.01	General Surface	surf		Lithic Tool	1	retouched flake	metavolcanic								
31WA2066 /2066**	2017.0192.01	General Surface	surf		Lithic Tool	2	retouched flake	quartz								
31WA2066 /2066**	2017.0192.02	ST 03	1	judgement l	a Lithic Deb	2	interior flake	quartz								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cour	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2066 /2066**	2017.0192.03	ST 04	1	judgementa l	a Lithic Deb	1	interior flake	quartz								
31WA2067 /2067**	2017.0193.01	General Surface	surf		H Misc	1	door knob	clay	fragment	Albany slipped ex	t dark brown		mineral	19th - early- 20th century	http://thebrassknob.co m/blog/those-brown- bennington-door- knobs/	
31WA2067 /2067**	2017.0193.01	General Surface	surf		Lithic Biface	1	late stage biface	e quartz								
31WA2067 /2067**	2017.0193.01	General Surface	surf		Lithic Indt	1	fragment	quartz								
31WA2068	2017.0194.01	General Surface	surf		Lithic Deb	1	bifacial thinning flake	quartz								
31WA2068	2017.0194.01	General Surface	surf		Lithic Deb	1	interior flake	quartz								
31WA2068	2017.0194.01	General Surface	surf		Lithic Deb	1	interior flake	metavolcanic								
31WA2068	2017.0194.01	General Surface	surf		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite								
31WA2068	2017.0194.02	ST 02	1	judgementa l	a Lithic Deb	1	interior flake	metavolcanic								
31WA2069	2017.0195.01	General Surface	surf		Lithic Biface	1	biface	metavolcanic								
31WA2069	2017.0195.01	General Surface	surf		Lithic Biface	1	biface tip	metavolcanic								
31WA2069	2017.0195.01	General Surface	surf		Lithic Biface	1	point	quartz				stem/shoulder area only	Savannah River Stemmed			SL13mm, SW33mm, BW18mm

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Coun	t Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight ((g)	Comment
31WA2069	2017.0195.01	General Surface	surf		Lithic Deb	1	bifacial thinning flake	quartz									
31WA2069	2017.0195.01	General Surface	surf		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite									
31WA2069	2017.0195.01	General Surface	surf		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2069	2017.0195.01	General Surface	surf		Lithic Deb	1	interior flake	metavolcanic									
31WA2069	2017.0195.01	General Surface	surf		Lithic Deb	6	interior flake	quartz									
31WA2069	2017.0195.01	General Surface	surf		Lithic Tool	1	end scraper	quartz								P	ML33mm
31WA2070	2017.0196.01	ST 01	2		NA Cer	1	body sherd	granule-sized quartz temper		indt impr ext, plain int			Yadkin series				
31WA2070	2017.0196.02	ST 05	2		Lithic Deb	1	interior flake	quartz									
31WA2070	2017.0196.03	ST 09	2		NA Cer	1	body sherd	very coarse sand temper, some angular		plain int and ext			Yadkin series				
31WA2071	2017.0197.01	ST 01	2		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA2071	2017.0197.02	ST 03	2		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA2071	2017.0197.03	ST 06	2		Lithic Biface	1	point	metavolcanic				tip only	indt				

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)	
31WA2071	2017.0197.03	ST 06	2		Lithic Deb	1	interior flake	quartzite									
31WA2071	2017.0197.04	ST 17	2		Lithic Deb	2	interior flake	metavolcanic									
31WA2071	2017.0197.04	ST 17	2		Lithic Indt	1	fragment	plagioclase porphyritic rhyolite									
31WA2072	2017.0198.01	ST 01	2		Lithic Deb	1	bifacial thinning flake	g metavolcanic									
31WA2072	2017.0198.01	ST 01	2		Lithic Deb	2	interior flake	metavolcanic									
31WA2073	2017.0199.01	ST 01	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2074 /2074**	2017.0200.01	ST 01	1		Lithic Deb	1	shatter	quartz									
31WA2074 /2074**	2017.0200.02	ST 02	1		Lithic Deb	1	interior flake	quartz									
31WA2074 /2074**	2017.0200.03	ST 04	1		Lithic Deb	5	interior flake	quartz									
31WA2074 /2074**	2017.0200.04	ST 05	1		Lithic Deb	5	interior flake	quartz									
31WA2074 /2074**	2017.0200.05	ST 08	2		Lithic Tool	1	retouched flake	metavolcanic									
31WA2074 /2074**	2017.0200.06	ST 18	1		Glass	1	container glass		finish fragment		colorless						

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cour	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2075	2017.0201.01	ST 01	1		Lithic Biface	: 1	point	chert			buff/grayish brown	tip missing	Large Triangular			BW27mm, MT5mm
31WA2076 /2076**	5 2017.0206.01	ST 05 Judgementa I	1 a		H Fasten/Tool	1	nail	iron	complete			corroded	cut			
31WA2077	2017.0203.01	ST 01	2		Lithic Deb	2	interior flake	quartz								
31WA2078	3 2017.0204.01	ST 01	2		Lithic Deb	1	flake fragment	metavolcanic								
31WA2079	2017.0205.01	General Surface	surf		Lithic Deb	1	bifacial thinning flake	g aphyric rhyolite								
31WA2079	2017.0205.01	General Surface	surf		Lithic Deb	2	interior flake	metavolcanic								
31WA2079	2017.0205.01	General Surface	surf		Lithic Deb	1	interior flake	plagioclase- quartz porphyritic rhyolite								
31WA2079	2017.0205.02	ST 01	2		Lithic Deb	1	interior flake	metavolcanic								
31WA2079	2017.0205.03	ST 05	1		Lithic Deb	1	interior flake	quartzite								
31WA2079	2017.0205.04	ST 14	2		Lithic Deb	1	interior flake	quartz								
31WA2080	2017.0207.01	ST 01	2		Lithic Deb	4	bifacial thinning flake	g metavolcanic								
31WA2080	2017.0207.01	ST 01	2		Lithic Deb	1	flake fragment	metavolcanic								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cour	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)	
31WA2080	2017.0207.01	ST 01	2		Lithic Deb	2	interior flake	metavolcanic									
31WA2080	2017.0207.01	ST 01	2		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite									
31WA2080	2017.0207.02	ST 06	1		Lithic Deb	1	interior flake	metavolcanic									
31WA2081	2017.0208.01	General Surface	surf		Lithic Deb	8	interior flake	metavolcanic									
31WA2081	2017.0208.01	General Surface	surf		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite									
31WA2081	2017.0208.02	ST 02	1		Lithic Deb	1	interior flake	quartz									
31WA2081	2017.0208.02	ST 02	1		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2082 /2082**	2017.0209.30	Ceramic Scatter	surf	3/1/17	NA Cer	4	body sherd	granule- to pebble-sized quartztemper, some angular		indt impr ext, plain int		in	dt			very high temper dens	ity
31WA2082 /2082**	2019.0209.27	Ceramic Scatter #2	surf	2/21/17	NA Cer	1	base sherd	coarse sand temper, some angular		net impr ext, plair int	1	in	dt				
31WA2082 /2082**	2017.0209.27	Ceramic Scatter #2	surf	2/21/17	NA Cer	1	rim sherd	coarse sand temper	simple direct rim with flattened lip	net-impr ext, plair int	1	in	dt				
31WA2082 /2082**	2019.0209.27	Ceramic Scatter #2	surf	2/21/17	NA Cer	10	sherd under 2cm max dimension					in	dt				
31WA2082 /2082**	2017.0209.26	Ceramic Scatter 1	surf	2/20/17	NA Cer	24	body sherd	granule-sized quartz temper		indt impr ext, smoothed int		in	dt			impresions very faint	

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cour	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight (g)	Comment
31WA2082 /2082**	2017.0209.27	Ceramic Scatter 2	surf	2/20/17	NA Cer	8	body sherd	coarse sand temper		net-impr ext, plain int	L		indt				knotted net, prob same vessel
31WA2082 /2082**	2017.0209.28	Ceramic Scatter 2B	surf	2/20/17	NA Cer	7	body sherd	coarse sand to granule-sized quartz temper, some angular		indt impr ext, plain int			Yadkin series				
31WA2082 /2082**	2017.0209.29	Ceramic Scatter 3	surf	2/20/17	NA Cer	5	body sherd	coarse sand temper, some angular		fabric impr ext, plain int			Yadkin series				
31WA2082 /2082**	2017.0209.01	General Surface	surf	3/1/17	Lithic Deb	3	interior flake	quartz									
31WA2082 /2082**	2017.0209.01	General Surface	surf	3/1/17	Lithic Deb	1	interior flake	metavolcanic									
31WA2082 /2082**	2017.0209.01	General Surface	surf	3/1/17	NA Cer	1	body sherd	coarse sand temper		indt impr ext, plain int			indt				small sherd, just over 2cm max dimension
31WA2082 /2082**	2017.0209.01	General Surface	surf	3/1/17	NA Cer	1	rim sherd	coarse sand temper	slightly excurvate rim, tapered lip	plain ext and int			indt				small sherd just over 2cm max dimension
31WA2082 /2082**	2017.0209.31	Lithic Scatter 2	surf	2/27/17	Lithic Deb	2	interior flake	metavolcanic									
31WA2082 /2082**	2017.0209.31	Lithic Scatter 2	surf	2/27/17	Lithic Deb	2	interior flake	aphyric rhyolite									
31WA2082 /2082**	2017.0209.31	Lithic Scatter 2	surf	2/27/17	Lithic Deb	2	interior flake	quartz									
31WA2082 /2082**	2017.0209.32	Lithic Scatter 3	surf	2/27/17	Lithic Deb	3	bifacial thinning flake	g metavolcanic									
31WA2082 /2082**	2017.0209.32	Lithic Scatter 3	surf	2/27/17	Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite									

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2082 /2082**	2017.0209.32	Lithic Scatter 3	surf	2/27/17	Lithic Deb	5	interior flake	quartz								
31WA2082 /2082**	2017.0209.32	Lithic Scatter 3	surf	2/27/17	Lithic Deb	5	interior flake	metavolcanic								
31WA2082 /2082**	2017.0209.32	Lithic Scatter 3	surf	2/27/17	Lithic Deb	1	interior flake	quartz porphyritic rhyolite								
31WA2082 /2082**	2017.0209.33	ST 01	2		NA Cer	1	body sherd	granule-sized quartz temper		indt ext and int		:	indt			
31WA2082 /2082**	2017.0209.34	ST AA 12	1/2 interfa ce		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA2082 /2082**	2017.0209.35	ST AA 13	1/2 interfa ce		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA2082 /2082**	2017.0209.35	ST AA 13	1/2 interfa ce		Lithic Deb	1	interior flake	quartz								
31WA2082 /2082**	2017.0209.36	ST BB 03	1		Lithic Deb	1	interior flake	metavolcanic								
31WA2082 /2082**	2017.0209.37	ST BB 11	1		Lithic Deb	1	decortication flake	metavolcanic								
31WA2082 /2082**	2017.0209.38	ST BB 11	2		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA2082 /2082**	2017.0209.38	ST BB 11	2		Lithic Deb	1	flake fragment	metavolcanic								
31WA2082 /2082**	2017.0209.39	ST DD 05	1		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight (g)	Comment
31WA2082 /2082**	2017.0209.40	ST EE 04	2		Lithic Deb	1	interior flake	quartz									
31WA2082 /2082**	2017.0209.41	ST EE 05	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2082 /2082**	2017.0209.41	ST EE 05	2		Lithic Deb	1	interior flake	quartz porphyritic rhyolite									
31WA2082 /2082**	2017.0209.42	ST EE 07	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2082 /2082**	2017.0209.42	ST EE 07	2		Lithic Deb	1	interior flake	quartz									
31WA2082 /2082**	2017.0209.43	ST FF 02	2		Lithic Deb	1	interior flake	quartz									
31WA2082 /2082**	2017.0209.44	ST FF 04	2		NA Cer	1	body sherd	granule-sized quartz temper		net-impr ext, plaii int	1		indt				knotted net
31WA2082 /2082**	2017.0209.45	ST FF 09	1		NA Cer	4	rim sherd and body sherd	coarse to very coarse sand temper		fabric impr ext, plain int			Yadkin series				very small sherds
31WA2082 /2082**	2017.0209.46	ST X 09	1		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA2082 /2082**	2017.0209.47	ST Y 07	1		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2082 /2082**	2017.0209.15	Surface Collection 1/11	surf	2/21/17	Lithic Indt	1	fragment	quartz									
31WA2082 /2082**	2017.0209.03	Surface Collection 1/2	surf	2/28/17	Lithic Biface	1	point	aphyric rhyolite				complete	indt-very small stemmed point				square stem, broad blade with straight sides, ML25mm, SL5mm, SW19mm, BW10mm, MT4mm

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight (g)	Comment
31WA2082 /2082**	2017.0209.05	Surface Collection 1/4	surf	2/20/17	Lithic Deb	1	interior flake	metavolcanic									
31WA2082 /2082**	2017.0209.09	Surface Collection 1/6	surf	2/27/17	Lithic Biface	1	point	quartz				complete	Guilford Lanceolate				ML4BW15mm, MT11mm
31WA2082 /2082**	2017.0209.24	Surface Collection 10/11	surf	2/21/17	Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite									
31WA2082 /2082**	2019.0209.25	Surface Collection 11/11	surf	2/21/17	Brick	15	brick fragment									47.63g	highly eroded
31WA2082 /2082**	2017.0209.25	Surface Collection 11/11	surf	2/21/17	NA Cer	14	indt sherd (eroded)	medium to coarse sand temper					indt (very coarse texture)				
31WA2082 /2082**	2019.0209.25	Surface Collection 11/11	surf	2/21/17	NA Cer	8	sherd under 2cm max dimension						indt				
31WA2082 /2082**	2017.0209.16	Surface Collection 2/11	surf	2/21/17	NA Cer	1	body sherd	granule-sized quartz temper, some angular		fabric impr ext, plain int			Yadkin series				
31WA2082 /2082**	2017.0209.04	Surface Collection 2/2	surf	2/28/17	H Misc	1	marble	glass	complete		white and blue	e		1901 - present	JPPM 2017		
31WA2082 /2082**	2017.0209.04	Surface Collection 2/2	surf	2/28/17	Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite									
31WA2082 /2082**	2017.0209.04	Surface Collection 2/2	surf	2/28/17	Lithic Deb	2	bifacial thinning flake	metavolcanic									
31WA2082 /2082**	2017.0209.04	Surface Collection 2/2	surf	2/28/17	Lithic Deb	1	flake fragment	metavolcanic									
31WA2082 /2082**	2017.0209.04	Surface Collection 2/2	surf	2/28/17	Lithic Deb	4	interior flake	metavolcanic									

Site Ac	cession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2082 20 /2082**	017.0209.04	Surface Collection 2/2	surf	2/28/17	Lithic Deb	6	interior flake	quartz								
31WA2082 20 /2082**	017.0209.06	Surface Collection 2/4	surf	2/20/17	H Ceram	1	pearlware		body fragment	blue transfer printed	bluish white and blue		Blue Willow	1795 - 1830	Noel Hume 1969	
31WA2082 20 /2082**	017.0209.10	Surface Collection 2/6	surf	2/27/17	NA Cer	2	body sherd	medium sand temper		impr ext, possible net impr, plain int			indt			
31WA2082 20 /2082**	017.0209.10	Surface Collection 2/6	surf	2/27/17	NA Cer	1	body sherd	coarse sand temper, some angular		cord marked ext, plain int			Yadkin series?			
31WA2082 20 /2082**	019.0209.10	Surface Collection 2/6	surf	2/27/17	NA Cer	1	sherd under 2cm max dimension						indt			
31WA2082 20 /2082**	017.0209.17	Surface Collection 3/11	surf	2/21/17	NA Cer	2	body sherd	granule-sized quartz temper, some angular		fabric impr ext, plain int			Yadkin series			
31WA2082 20 /2082**	017.0209.07	Surface Collection 3/4	surf	2/20/17	Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite								
31WA2082 20 /2082**	017.0209.07	Surface Collection 3/4	surf	2/20/17	Lithic Deb	6	bifacial thinning flake	metavolcanic								
31WA2082 20 /2082**	017.0209.07	Surface Collection 3/4	surf	2/20/17	Lithic Deb	1	decortication flake	metavolcanic								
31WA2082 20 /2082**	017.0209.07	Surface Collection 3/4	surf	2/20/17	Lithic Deb	2	flake fragment	metavolcanic								
31WA2082 20 /2082**	017.0209.07	Surface Collection 3/4	surf	2/20/17	Lithic Deb	1	interior flake	rhyolitic breccia?								
31WA2082 20 /2082**	017.0209.07	Surface Collection 3/4	surf	2/20/17	Lithic Deb	9	interior flake	metavolcanic								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2082 /2082**	2017.0209.07	Surface Collection 3/4	surf	2/20/17	Lithic Deb	3	interior flake	aphyric rhyolite								
31WA2082 /2082**	2017.0209.07	Surface Collection 3/4	surf	2/20/17	NA Cer	1	body sherd	granue-sized quartz temper, some angular		indt impr ext, spalled int			indt			
31WA2082 /2082**	2017.0209.07	Surface Collection 3/4	surf	2/20/17	NA Cer	4	indt fragments									under 2 cm max dimension, non-sherd
31WA2082 /2082**	2017.0209.11	Surface Collection 3/6	surf	2/27/17	NA Cer	2	body sherd	granule-sized quartz temper, some angular		fabric impr ext, lightly scraped int			Yadkin series			from same vessel
31WA2082 /2082**	2019.0209.11	Surface Collection 3/6	surf	2/27/17	NA Cer	1	body sherd	coarse sand temper		indt ext, plain int			indt			
31WA2082 /2082**	2019.0209.11	Surface Collection 3/6	surf	2/27/17	NA Cer	1	rim sherd	indt temper	tapered lip	plain int and ext			indt			very small sherd
31WA2082 /2082**	2017.0209.18	Surface Collection 4/11	surf	2/21/17	Lithic Deb	1	interior flake	quartz								
31WA2082 /2082**	2017.0209.08	Surface Collection 4/4	surf	2/20/17	Lithic Biface	1	point	quartz				tip only	indt			
31WA2082 /2082**	2017.0209.12	Surface Collection 4/6	surf	2/27/17	NA Cer	1	base sherd	medium to coarse sand temper		plain			indt			
31WA2082 /2082**	2019.0209.12	Surface Collection 4/6	surf	2/27/17	NA Cer	1	body sherd (coil break)	ver coarse sand temper		indt impr ext, plain int			indt			
31WA2082 /2082**	2017.0209.19	Surface Collection 5/11	surf	2/21/17	Lithic Deb	1	bifacial thinning flake	quartz								
31WA2082 /2082**	2017.0209.19	Surface Collection 5/11	surf	2/21/17	Lithic Deb	11	interior flake	quartz								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Coun	t Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight (g)	Comment
31WA2082 /2082**	2017.0209.13	Surface Collection 5/6	surf	2/27/17	Lithic Biface	1	point	quartz				tip missing	possible Savannah River Stemmed				crudely flaked and possibly resharpened, ML(47mm), SL15mm, SW28mm, BW14mm, MT9mm
31WA2082 /2082**	2017.0209.20	Surface Collection 6/11	surf	2/21/17	Lithic Biface	1	point	quartz				complete	indt stemmed point				contracting squared stem with straight base, ML37mm, SL11mm, BW11mm, MT9mm
31WA2082 /2082**	2017.0209.14	Surface Collection 6/6	surf	2/27/17	Glass	1	container glass		base fragment	embossed	aqua						
31WA2082 /2082**	2017.0209.14	Surface Collection 6/6	surf	2/27/17	Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA2082 /2082**	2017.0209.14	Surface Collection 6/6	surf	2/27/17	Lithic Deb	3	interior flake	metavolcanic									
31WA2082 /2082**	2017.0209.14	Surface Collection 6/6	surf	2/27/17	Lithic Deb	4	interior flake	quartz									
31WA2082 /2082**	2017.0209.14	Surface Collection 6/6	surf	2/27/17	Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2082 /2082**	2017.0209.14	Surface Collection 6/6	surf	2/27/17	Lithic Deb	1	shatter	quartz									
31WA2082 /2082**	2017.0209.21	Surface Collection 7/11	surf	2/21/17	Lithic Deb	5	interior flake	quartz									
31WA2082 /2082**	2017.0209.21	Surface Collection 7/11	surf	2/21/17	Lithic Deb	1	shatter	quartz									
31WA2082 /2082**	2017.0209.22	Surface Collection 8/11	surf	2/21/17	Lithic Indt	1	fragment	plagioclase porphyritic rhyolite									
31WA2082 /2082**	2017.0209.23	Surface Collection 9/11	surf	2/21/17	Lithic Deb	3	interior flake	aphyric rhyolite									

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31WA2082 /2082**	2017.0209.23	Surface Collection 9/11	surf	2/21/17	Lithic Deb	6	interior flake	metavolcanic									
31WA2082 /2082**	2017.0209.02	Surface Find	surf	3/1/17	NA Cer	1	body sherd	coarse sand temper, some angular		fabric impr ext, plain int			Yadkin series?				
31WA2083	2017.0210.01	ST 01	2		Lithic Deb	1	interior flake	quartz									
31WA2084	2017.0211.01	ST 01	1		Lithic Deb	1	interior flake	quartz									
31WA2085	2017.0212.01	ST 01	2		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA2085	2017.0212.01	ST 01	2		Lithic Deb	1	bifacial thinning flake	quartz									
31WA2085	2017.0212.01	ST 01	2		Lithic Deb	4	interior flake	quartz									
31WA2085	2017.0212.02	ST 05	2		Lithic Deb	1	decortication flake	quartzite									
31WA2085	2017.0212.02	ST 05	2		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite									
31WA2085	2017.0212.02	ST 05	2		Lithic Deb	4	interior flake	quartz									
31WA2085	2017.0212.03	ST 08	1		Lithic Deb	1	flake fragment	metavolcanic									
31WA2085	2017.0212.04	ST 08	2		Lithic Deb	4	interior flake	quartz									

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31WA2085	2017.0212.04	ST 08	2		Lithic Deb	3	interior flake	metavolcanic								
31WA2085	2017.0212.05	ST 09	2		Lithic Biface	1	point	metavolcanic				complete	indt eared triangle	;		ground base, ML37mm, BW 19mm, MT7mm
31WA2085	2017.0212.06	ST 11	2		Lithic Deb	4	interior flake	quartz								
31WA2085	2017.0212.06	ST 11	2		Lithic Deb	1	interior flake	metavolcanic								
31WA2085	2017.0212.06	ST 11	2		NA Cer	1	body sherd	indt temper		indt ext and int			indt			
31WA2085	2017.0212.07	ST 12	2		Lithic Deb	1	interior flake	metavolcanic								
31WA2085	2017.0212.08	ST 14	2		Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite								
31WA2085	2017.0212.08	ST 14	2		Lithic Deb	1	interior flake	quartz								
31WA2085	2017.0212.08	ST 14	2		Lithic Deb	4	interior flake	plagioclase porphyritic rhyolite								
31WA2085	2017.0212.08	ST 14	2		Lithic Deb	3	interior flake	aphyric rhyolite								
31WA2085	2017.0212.09	ST 15	2		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA2085	2017.0212.09	ST 15	2		Lithic Deb	16	interior flake	metavolcanic								

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31WA2085	2017.0212.09	ST 15	2		Lithic Deb	2	interior flake	quartz								
31WA2085	2017.0212.09	ST 15	2		Lithic Deb	4	interior flake	rhyolitic breccia?								
31WA2085	2017.0212.10	ST 21	1		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite								
31WA2085	2017.0212.10	ST 21	1		Lithic Deb	1	bifacial thinning flake	g metavolcanic								
31WA2085	2017.0212.10	ST 21	1		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2085	2017.0212.11	ST 21	2		Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite								
31WA2085	2017.0212.11	ST 21	2		Lithic Deb	1	interior flake	quartz porphyritic rhyolite								
31WA2085	2017.0212.11	ST 21	2		Lithic Deb	4	interior flake	quartz								
31WA2085	2017.0212.12	ST 22	2		Lithic Deb	1	interior flake	plagioclase- quartz porphyritic rhyolite								
31WA2085	2017.0212.12	ST 22	2		Lithic Deb	1	interior flake	quartz								
31WA2085	2017.0212.13	ST 23	1		Lithic Deb	4	interior flake	quartz								
31WA2085	2017.0212.14	ST 23	2		Lithic Deb	1	interior flake	quartz								

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31WA2085	2017.0212.15	ST 26	2		Lithic Deb	2	interior flake	quartz									
31WA2085	2017.0212.15	ST 26	2		Lithic Deb	1	shatter	quartz									
31WA2085	2017.0212.16	ST 31	2		NA Cer	2	body sherd	very coarse sand temper		indt ext, plain int		i	indt				
31WA2085	2017.0212.17	ST 40	1		Lithic Deb	1	interior flake	quartz									
31WA2085	2017.0212.18	ST 42	2		Lithic Deb	1	bifacial thinning flake	g metavolcanic									
31WA2085	2017.0212.18	ST 42	2		Lithic Deb	2	interior flake	plagioclase porphyritic rhyolite									
31WA2085	2017.0212.19	ST 45	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2085	2017.0212.20	ST 51	1		Lithic Deb	1	interior flake	quartz									
31WA2085	2017.0212.21	ST 57	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2085	2017.0212.22	ST 68	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2085	2017.0212.23	ST 69	2		Lithic Deb	1	interior flake	quartz									
31WA2085	2017.0212.24	ST 70	2		Lithic Deb	3	interior flake	metavolcanic									

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31WA2085	2017.0212.25	ST 71	1		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite								
31WA2085	2017.0212.26	ST 72	1		Lithic Deb	1	interior flake	quartz								
31WA2085	2017.0212.26	ST 72	1		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2085	2017.0212.27	TU 01	2 1		Lithic Deb	1	flake fragment	metavolcanic								
31WA2085	2017.0212.27	TU 01	2 1		Lithic Deb	4	interior flake	metavolcanic								
31WA2085	2017.0212.27	TU 01	2 1		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2085	2017.0212.27	TU 01	2 1		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite								
31WA2085	2017.0212.28	TU 01	2 2		Lithic Deb	2	interior flake	quartz								
31WA2085	2017.0212.28	TU 01	2 2		Lithic Deb	2	interior flake	aphyric rhyolite								
31WA2085	2017.0212.29	TU 01	2 3		Lithic Deb	1	bifacial thinning flake	g aphyric rhyolite								
31WA2085	2017.0212.29	TU 01	2 3		Lithic Deb	1	bifacial thinning flake	g metavolcanic								
31WA2085	2017.0212.29	TU 01	2 3		Lithic Deb	1	bifacial thinning flake	g rhyolitic breccia?								

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31WA2085	2017.0212.29	TU 01	2 3		Lithic Deb	3	interior flake	metavolcanic								
31WA2085	2017.0212.29	TU 01	2 3		Lithic Deb	2	interior flake	aphyric rhyolite								
31WA2085	2017.0212.29	TU 01	2 3		Lithic Deb	13	interior flake	quartz								
31WA2085	2017.0212.29	TU 01	2 3		Lithic Deb	1	shatter	quartz								
31WA2085	2017.0212.30	TU 01	2 4		Lithic Deb	19	interior flake	quartz								
31WA2085	2017.0212.30	TU 01	2 4		Lithic Deb	3	interior flake	metavolcanic								
31WA2085	2017.0212.30	TU 01	2 4		Lithic Deb	1	shatter	quartz								
31WA2085	2017.0212.31	TU 01	2 5		Lithic Deb	23	interior flake	quartz								
31WA2085	2017.0212.32	TU 01	2 6		Lithic Deb	9	interior flake	quartz								
31WA2085	2017.0212.32	TU 01	2 6		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2085	2017.0212.33	TU 01	2 7		Lithic Deb	3	interior flake	quartz								
31WA2085	2017.0212.34	TU 01	2 8		Lithic Deb	1	interior flake	aphyric rhyolite								

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31WA2085	2017.0212.35	TU 02	2 1		Lithic Deb	1	decortication flake	quartzite									
31WA2085	2017.0212.35	TU 02	2 1		Lithic Deb	6	interior flake	quartz									
31WA2085	2017.0212.35	TU 02	2 1		Lithic Deb	1	interior flake	metavolcanic									
31WA2085	2017.0212.35	TU 02	2 1		Lithic Deb	2	shatter	quartz									
31WA2085	2017.0212.36	TU 02	2 2		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA2085	2017.0212.36	TU 02	2 2		Lithic Deb	3	interior flake	metavolcanic									
31WA2085	2017.0212.36	TU 02	2 2		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2085	2017.0212.36	TU 02	2 2		Lithic Deb	37	interior flake	quartz									
31WA2085	2017.0212.37	TU 02	2 3		Lithic Deb	20	interior flake	quartz									
31WA2085	2017.0212.37	TU 02	2 3		Lithic Deb	1	shatter	quartz									
31WA2086	2017.0213.01	ST 01	1		Lithic Deb	1	interior flake	metavolcanic									
31WA2086	2017.0213.02	ST 01	2		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite									

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31WA2086	2017.0213.03	ST 06	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2086	2017.0213.04	ST 09	1		Lithic Deb	1	interior flake	metavolcanic									
31WA2086	2017.0213.04	ST 09	1		Lithic Deb	1	interior flake	quartz									
31WA2087	2017.0214.01	ST 01	1		Lithic Deb	2	interior flake	quartz									
31WA2087	2017.0214.02	ST 01	2		Lithic Deb	5	interior flake	metavolcanic									
31WA2087	2017.0214.03	ST 02	1		Lithic Deb	1	interior flake	quartz									
31WA2087	2017.0214.04	ST 02	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2087	2017.0214.05	ST 05	2		Lithic Deb	2	interior flake	quartz									
31WA2087	2017.0214.05	ST 05	2		NA Cer	18	body sherd	granule-sized quartz temper		fabric impr ext, plain/smoothed ir	ıt	i (] (ndt but compares to Mount Pleasant eries from N Coastal Plain			may be all same v	vessel
31WA2087	2017.0214.06	ST 07	2		Lithic Deb	2	interior flake	quartz									
31WA2087	2017.0214.07	ST 14	2		Lithic Deb	1	bifacial thinning flake	g metavolcanic									
31WA2087	2017.0214.09	ST 15	2		Lithic Deb	1	decortication flake	quartz									

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31WA2087	2017.0214.09	ST 15	2		Lithic Deb	2	interior flake	metavolcanic									
31WA2087	2017.0214.09	ST 15	2		Lithic Deb	1	interior flake	quartz									
31WA2087	2017.0214.09	ST 15	2		NA Cer	8	body sherd	granule-sized quartz temper		cord-marked ext, plain int			indt				probably same vessel, criss- cross markings
31WA2087	2017.0214.08	ST 15	backdi rt		NA Cer	1	body sherd	granule to pebble- sized temper		fabric impr? ext, plain int			indt				small sherd, loose woven textile?
31WA2087	2017.0214.10	ST 17	2		Lithic Deb	1	bifacial thinning flake	g metavolcanic									
31WA2087	2017.0214.10	ST 17	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2087	2017.0214.11	ST 19	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2087	2017.0214.12	ST 21	3		Lithic Deb	1	bifacial thinning flake	g metavolcanic									
31WA2087	2017.0214.12	ST 21	3		Lithic Deb	6	interior flake	metavolcanic									
31WA2087	2017.0214.13	ST 24	1		Lithic Deb	1	bifacial thinning flake	g metavolcanic									
31WA2087	2017.0214.14	ST 35	2		Lithic Deb	2	interior flake	aphyric rhyolite									
31WA2087	2017.0214.14	ST 35	2		Lithic Deb	7	interior flake	metavolcanic									

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31WA2087	2017.0214.15	ST 40	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2087	2017.0214.16	ST 41	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2087	2017.0214.17	ST 43	2		Lithic Deb	3	interior flake	metavolcanic									
31WA2087	2017.0214.17	ST 43	2		NA Cer	1	body sherd	indt		spalled surfaces		i	ndt				
31WA2087	2017.0214.18	ST 45	2		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA2087	2017.0214.18	ST 45	2		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2087	2017.0214.18	ST 45	2		Lithic Deb	1	interior flake	quartz									
31WA2087	2017.0214.19	ST 50	1		Lithic Deb	1	interior flake	metavolcanic									
31WA2087	2017.0214.19	ST 50	1		Lithic Deb	1	interior flake	quartz									
31WA2087	2017.0214.20	ST 53	1		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA2087	2017.0214.20	ST 53	1		Lithic Deb	1	interior flake	quartz									
31WA2087	2017.0214.21	ST 53	2		NA Cer	1	body sherd	granule-sized quartz temper, some angular		cord-marked ext, plain int		,	Yadkin series			small sherd	

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31WA2087	2017.0214.22	ST 54	1		Lithic Deb	1	bifacial thinning flake	g metavolcanic								
31WA2087	2017.0214.22	ST 54	1		Lithic Deb	1	interior flake	metavolcanic								
31WA2087	2017.0214.23	ST 58	1		Lithic Deb	2	interior flake	metavolcanic								
31WA2087	2017.0214.24	ST 59	2		Lithic Deb	2	interior flake	quartz								
31WA2087	2017.0214.24	ST 59	2		Lithic Deb	1	interior flake	metavolcanic								
31WA2087	2017.0214.25	ST 62	2		Lithic Deb	2	interior flake	quartz								
31WA2087	2017.0214.26	ST 63	1		Lithic Deb	1	interior flake	plagioclase- quartz porphyritic rhyolite								
31WA2087	2017.0214.27	ST 65	2		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA2087	2017.0214.28	ST 66	2		Lithic Deb	1	interior flake	quartz								
31WA2087	2017.0214.29	ST 74	2		Lithic Deb	1	interior flake	metavolcanic								
31WA2087	2017.0214.30	ST 82	2		Lithic Deb	2	interior flake	aphyric rhyolite								
31WA2087	2017.0214.30	ST 82	2		Lithic Deb	1	interior flake	metavolcanic								

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31WA2087	2017.0214.31	ST 85	1		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA2087	2017.0214.31	ST 85	1		Lithic Deb	1	interior flake	metavolcanic									
31WA2087	2017.0214.32	ST 85	2		Lithic Deb	1	interior flake	metavolcanic									
31WA2087	2017.0214.32	ST 85	2		Lithic Deb	1	interior flake	quartz									
31WA2087	2017.0214.33	ST 91	1		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite									
31WA2087	2017.0214.34	ST 93	2		Lithic Deb	1	bifacial thinning flake	aphyric rhyolite									
31WA2087	2017.0214.34	ST 93	2		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2087	2017.0214.35	TU 01	2 1		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite									
31WA2087	2017.0214.36	TU 01	2 2		Lithic Deb	6	interior flake	quartz									
31WA2087	2017.0214.36	TU 01	2 2		Lithic Deb	1	interior flake	metavolcanic									
31WA2087	2017.0214.36	TU 01	2 2		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite									
31WA2087	2017.0214.36	TU 01	2 2		NA Cer	1	sherd under 2cm max dimension					in	dt				

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31WA2087	2017.0214.37	TU 01	2 3		Lithic Deb	1	bifacial thinning flake	; quartz									
31WA2087	2017.0214.37	TU 01	2 3		Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite									
31WA2087	2017.0214.37	TU 01	2 3		Lithic Deb	3	interior flake	quartz									
31WA2087	2017.0214.38	TU 01	2 4		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2087	2017.0214.38	TU 01	2 4		Lithic Deb	10	interior flake	quartz									
31WA2087	2017.0214.38	TU 01	2 4		Lithic Deb	1	interior flake	metavolcanic									
31WA2087	2017.0214.39	TU 01	2 5		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite									
31WA2087	2017.0214.39	TU 01	2 5		Lithic Deb	6	interior flake	quartz									
31WA2087	2017.0214.40	TU 01	2 6		Lithic Deb	2	interior flake	quartz									
31WA2087	2017.0214.41	TU 02	2 2		Lithic Deb	4	interior flake	metavolcanic									
31WA2087	2017.0214.42	TU 02	2 3		Lithic Deb	3	interior flake	metavolcanic									
31WA2087	2017.0214.43	TU 02	2 4		Lithic Deb	3	interior flake	metavolcanic									

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31WA2087	2017.0214.44	TU 03	1 1		Lithic Deb	2	bifacial thinning flake	metavolcanic									
31WA2087	2017.0214.45	TU 03	1 2		Lithic Deb	2	bifacial thinning flake	metavolcanic									
31WA2087	2017.0214.45	TU 03	1 2		Lithic Deb	1	interior flake	quartz porphyritic rhyolite									
31WA2087	2017.0214.45	TU 03	1 2		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2087	2017.0214.45	TU 03	1 2		Lithic Deb	1	interior flake	quartz									
31WA2087	2017.0214.45	TU 03	1 2		Lithic Deb	1	interior flake	metavolcanic									
31WA2087	2017.0214.45	TU 03	1 2		Lithic Tool	1	retouched flake	metavolcanic									
31WA2087	2017.0214.45	TU 03	1 2		NA Cer	1	body sherd	very coarse sand temper		indt ext, plain int		iı	ndt				
31WA2087	2017.0214.46	TU 03	2 1		Lithic Deb	4	bifacial thinning flake	metavolcanic									
31WA2087	2017.0214.46	TU 03	2 1		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite									
31WA2087	2017.0214.46	TU 03	2 1		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2087	2017.0214.46	TU 03	2 1		Lithic Deb	10	interior flake	metavolcanic									

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)	
31WA2087	2017.0214.46	TU 03	2 1		Lithic Deb	2	interior flake	quartz									
31WA2087	2017.0214.46	TU 03	2 1		NA Cer	6	indt sherd (small, eroded)						indt				
31WA2087	2017.0214.47	TU 03	2 3		Lithic Deb	3	bifacial thinning flake	metavolcanic									
31WA2087	2017.0214.47	TU 03	2 3		Lithic Deb	9	interior flake	metavolcanic									
31WA2087	2017.0214.47	TU 03	2 3		Lithic Deb	2	interior flake	quartz									
31WA2088	2017.0215.01	ST 01	2		NA Cer	1	body sherd	granule-sized quartz temper, some angular		net-impr ext, plair int	1		indt				
31WA2088	2017.0215.02	ST 03	1		Lithic Deb	1	bifacial thinning flake	metavolcanic									
31WA2088	2017.0215.03	ST 04	1		Lithic Deb	1	interior flake	metavolcanic									
31WA2088	2017.0215.03	ST 04	1		Lithic Tool	1	retouched flake	aphyric rhyolite									
31WA2088	2017.0215.04	ST 10	2		NA Cer	1	body sherd	coarse sand temper		indt ext, plain int			indt				
31WA2088	2017.0215.05	ST 10	3		Lithic Deb	1	interior flake	quartz									
31WA2089	2017.0216.01	ST 01	2		Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite									

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Coun	t Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)	
31WA2089	2017.0216.01	ST 01	2		Lithic Deb	1	bifacial thinning flake	g aphyric rhyolite									
31WA2089	2017.0216.01	ST 01	2		Lithic Deb	6	interior flake	metavolcanic									
31WA2089	2017.0216.01	ST 01	2		Lithic Deb	1	interior flake	quartz									
31WA2089	2017.0216.02	ST 04	2		Lithic Deb	1	interior flake	quartz porphyritic rhyolite									
31WA2089	2017.0216.03	ST 11	2		Lithic Deb	6	interior flake	quartz									
31WA2089	2017.0216.03	ST 11	2		Lithic Deb	2	interior flake	metavolcanic									
31WA2089	2017.0216.04	ST 12	1		Lithic Deb	7	interior flake	quartz									
31WA2089	2017.0216.04	ST 12	1		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA2089	2017.0216.04	ST 12	1		Lithic Deb	4	interior flake	metavolcanic									
31WA2089	2017.0216.05	ST 15	1		Lithic Deb	1	interior flake	quartzite									
31WA2090	2017.0217.01	ST 01	1		Lithic Deb	1	interior flake	metavolcanic									
31WA2090	2017.0217.01	ST 01	1		NA Cer	1	body sherd	coarse sand temper		indt ext, plain int		in	dt			small sherd	

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA2091	2017.0218.01	ST 01	2		Lithic Deb	2	interior flake	metavolcanic								
31WA2091	2017.0218.01	ST 01	2		Lithic Deb	1	interior flake	quartz								
31WA2092	2 2017.0219.01	ST 01	2		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite								
31WA2092	2 2017.0219.02	ST 07	1		Lithic Deb	1	interior flake	metavolcanic								
31WA2092	2017.0219.03	ST 12	1		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA2092	2017.0219.04	ST 13	2		Lithic Deb	3	interior flake	aphyric rhyolite								
31WA2093	3 2017.0220.01	General Surface	surf		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA2093	3 2017.0220.01	General Surface	surf		Lithic Deb	3	interior flake	quartz								
31WA2093	3 2017.0220.01	General Surface	surf		Lithic Deb	1	interior flake	metavolcanic								
31WA2093	3 2017.0220.02	ST 01	3		Lithic Deb	2	shatter	quartz								
31WA2094	2017.0221.01	ST 01	1		Lithic Deb	1	interior flake	quartz								
31WA2094	2017.0221.02	ST 05	1		Lithic Deb	2	bifacial thinning flake	metavolcanic								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)	
31WA2094	2017.0221.03	ST 08	1/2 interfa ce		Lithic Deb	2	interior flake	quartz									
31WA2094	2017.0221.04	ST 09	1		Lithic Deb	1	interior flake	quartz									
31WA2094	2017.0221.05	ST 15	1		Lithic Deb	2	interior flake	metavolcanic									
31WA2094	2017.0221.05	ST 15	1		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA493	2017.0223.01	ST 02 Judgementa l	1		Bone	2	bone		fragment								
31WA493	2017.0223.01	ST 02 Judgementa l	1		H Fasten/Tool	1	nail	iron	complete			corroded	wire				
31WA493	2017.0223.02	ST 05 Judgementa l	1		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA663/ 663**	2017.0202.01	General Surface	surf		H Misc	1	horseshoe	iron	complete			corroded					
31WA663/ 663**	2017.0202.02	ST 01	1		Glass	1	container glass		body fragment		colorless						
31WA663/ 663**	2017.0202.16	ST 01 Judgementa l	1		Brick	1	brick		fragment							14.0 g	
31WA663/ 663**	2017.0202.03	ST 02	1		Glass	1	container glass		body fragment		aqua						
31WA663/ 663**	2017.0202.17	ST 02 Judgementa l	2		Glass	1	window glass				light aqua						

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Coun	t Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA663/ 663**	2017.0202.17	ST 02 Judgementa l	2		Lithic Deb	1	bifacial thinning flake	metavolcanic								
31WA663/ 663**	2017.0202.04	ST 03	2		Lithic Deb	1	interior flake	quartz								
31WA663/ 663**	2017.0202.19	ST 03 Judgementa l	1/2		Glass	9	container glass		body fragment		aqua					
31WA663/ 663**	2017.0202.19	ST 03 Judgementa l	1/2		Glass	2	container glass		body fragment		colorless					
31WA663/ 663**	2017.0202.19	ST 03 Judgementa l	1/2		H Ceram	7	whiteware		rim fragment		white			1830 - present	Miller et al. 2000	
31WA663/ 663**	2017.0202.19	ST 03 Judgementa l	1/2		H Ceram	8	whiteware		body fragment		white			1830 - present	Miller et al. 2000	
31WA663/ 663**	2017.0202.19	ST 03 Judgementa l	1/2		H Fasten/Tool	2	nail	iron	complete			corroded o	cut			
31WA663/ 663**	2017.0202.19	ST 03 Judgementa l	1/2		H Misc	1	bead	glass	complete		white					
31WA663/ 663**	2017.0202.20	ST 03 Judgementa l	3		Glass	1	container glass		body fragment		colorless					
31WA663/ 663**	2017.0202.20	ST 03 Judgementa l	3		Lithic Deb	2	interior flake	quartz								
31WA663/ 663**	2017.0202.18	ST 03 Judgementa l	surf		Brick	1	brick									792.0 g
31WA663/ 663**	2017.0202.21	ST 03 Judgementa l, Feature 1	i.		Botanical	1	charcoal									5.0 g

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)	
31WA663/ 663**	2017.0202.21	ST 03 Judgementa l, Feature 1	à		Lithic Deb	1	interior flake	quartz									
31WA663/ 663**	2017.0202.05	ST 06	2		Lithic Deb	1	interior flake	quartz									
31WA663/ 663**	2017.0202.06	ST 09	2		Lithic Deb	6	interior flake	metavolcanic									
31WA663/ 663**	2017.0202.07	ST 14	2		Lithic Deb	1	interior flake	metavolcanic									
31WA663/ 663**	2017.0202.08	ST 25	2		Lithic Deb	2	interior flake	quartz									
31WA663/ 663**	2017.0202.08	ST 25	2		Lithic Deb	1	interior flake	aphyric rhyolite									
31WA663/ 663**	2017.0202.09	ST 35	1		Glass	1	window glass				light aqua						
31WA663/ 663**	2017.0202.10	ST 49	1		Lithic Deb	1	interior flake	quartz									
31WA663/ 663**	2017.0202.11	ST 54	2		Glass	1	container glass		body fragment		amethyst	so m di de	larized/ anganese oxide colorized	1820s - 1930s (most common 1890 - 1920)	Lindsey 2017		
31WA663/ 663**	2017.0202.12	ST 55	1		Glass	1	window glass				light aqua						
31WA663/ 663**	2017.0202.13	ST 55	2		Glass	3	container glass		body fragment		colorless						
31WA663/ 663**	2017.0202.13	ST 55	2		H Ceram	1	whiteware		rim fragment		white			1830 - present	Miller et al. 2000		

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
31WA663/ 663**	2017.0202.13	ST 55	2		H Fasten/Tool	3	nail	iron	complete			corroded	cut			
31WA663/ 663**	2017.0202.13	ST 55	2		Lithic Deb	6	interior flake	plagioclase- quartz porphyritic rhyolite								
31WA663/ 663**	2017.0202.14	ST 57	2		Lithic Deb	1	bifacial thinning flake	plagioclase porphyritic rhyolite								
31WA663/ 663**	2017.0202.15	ST 59	2		Glass	1	container glass		body fragment		colorless					
31WA663/ 663**	2017.0202.15	ST 59	2		Lithic Deb	1	interior flake	aphyric rhyolite								
31WA663/ 663**	2017.0202.15	ST 59	2		Lithic Deb	1	interior flake	plagioclase porphyritic rhyolite								
31WA787/ 787**	2017.0186.01	General Surface	surf		Glass	1	container glass		body fragment		aqua	heat altered/melted				
31WA787/ 787**	2017.0186.01	General Surface	surf		Glass	1	container glass		body fragment		very dark olive green	e heat altered/melted				
31WA787/ 787**	2017.0186.01	General Surface	surf		H Ceram	1	pearlware		body fragment		bluish white			1780 - 1840	Noel Hume 1970	
31WA787/ 787**	2017.0186.01	General Surface	surf		H Ceram	1	pearlware		rim fragment	blue edged, incised straight lines, scalloped rin	bluish white and blue n		edged	1809 - 1831	FMNH 2017	
31WA787/ 787**	2017.0186.01	General Surface	surf		H Ceram	1	pearlware		rim fragment	blue, green, and brown hand painted	bluish white, blue, green, and brown		hand painted polychrome	1795 - 1840	FMNH 2017	
31WA787/ 787**	2017.0186.01	General Surface	surf		H Ceram	1	whiteware		body fragment	green, purple, and black hand painted	white, green, purple, and black		hand painted polychrome	1830 - present	Miller et al. 2000	
Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Coun	t Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)
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31WA787/ 787**	2017.0186.01	General Surface	surf		Lithic Biface	1	late stage biface	e metavolcanic								
31WA787/ 787**	2017.0186.01	General Surface	surf		Lithic Biface	1	point	quartz				tip only	indt			
31WA787/ 787**	2017.0186.01	General Surface	surf		Lithic Biface	1	point	metavolcanic				tip missing	indt stemmed with pointed stem and narrow blade			SL16mm, MT10mm
31WA787/ 787**	2017.0186.01	General Surface	surf		Lithic Deb	22	interior flake	quartz								
31WA787/ 787**	2017.0186.01	General Surface	surf		Lithic Deb	5	interior flake	metavolcanic								
31WA787/ 787**	2017.0186.01	General Surface	surf		Lithic Deb	2	interior flake	aphyric rhyolite								
31WA787/ 787**	2017.0186.01	General Surface	surf		Lithic Deb	2	interior flake	plagioclase porphyritic rhyolite								
31WA787/ 787**	2017.0186.01	General Surface	surf		Lithic Deb	3	shatter	quartz								
31WA787/ 787**	2017.0186.01	General Surface	surf		Lithic Indt	3	fire-cracked rock	quartzite	1 mano			fragmented (≤ half)	plano-convex			
31WA787/ 787**	2017.0186.01	General Surface	surf		Lithic Indt	1	fragment	quartzite								
31WA787/ 787**	2017.0186.01	General Surface	surf		Lithic Indt	3	fragment	quartz								
31WA787/ 787**	2017.0186.01	General Surface	surf		Lithic Tool	1	core	quartz porphyritic rhyolite								

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cou	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight Comment (g)	
31WA787/ 787**	2017.0186.01	General Surface	surf		Lithic Tool	1	groundstone	quartzite		Two finger grips/ abrasion and impact fractures		missing an end	indt				
31WA787/ 787**	2017.0186.01	General Surface	surf		NA Cer	1	rim sherd	granule-sized quartz temper with some angular	simple direct rim with pointed lip	indt ext, plain int			Yadkin series?				
31WA787/ 787**	2017.0186.02	ST 01	1	judgementa l	Lithic Deb	1	interior flake	quartz									
31WA787/ 787**	2017.0186.02	ST 01	1	judgementa l	Lithic Indt	1	fragment	metavolcanic									
31WA787/ 787**	2017.0186.03	ST 02	1	judgementa l	Lithic Deb	4	interior flake	quartz									
31WA787/ 787**	2017.0186.03	ST 02	1	judgementa l	Lithic Deb	1	interior flake	metavolcanic									
31WA787/ 787**	2017.0186.04	ST 03	1	judgementa l	Lithic Deb	1	decortication flake	quartzite									
31WA787/ 787**	2017.0186.05	ST 04	1	judgementa 1	Lithic Deb	3	interior flake	quartz									
31WA787/ 787**	2017.0186.05	ST 04	1	judgementa 1	Lithic Deb	1	interior flake	metavolcanic									
31WA787/ 787**	2017.0186.06	ST 05	1	judgementa l	Glass	3	container glass		body fragment		colorless						
31WA787/ 787**	2017.0186.06	ST 05	1	judgementa l	Glass	1	container glass		finish fragment		colorless					wide mouth external t finish	hread
31WA787/ 787**	2017.0186.06	ST 05	1	judgementa 1	Glass	1	container glass		base fragment		colorless						

Site	Accession #	ST/Unit or Fea.	Zone Level	Other Prov.	Analytic Class	Cour	nt Object/ Material	Base Material	Form/ Portion	Decoration/ Treatment	Color	Condition	Туре	Production Date Range	Production Date Range Reference	Weight (g)	Comment
31WA787/ 787**	2017.0186.06	ST 05	1	judgementa l	ı Glass	1	container glass		body fragment		cobalt blue						
31WA787/ 787**	2017.0186.06	ST 05	1	judgementa l	ı Glass	1	container glass		body fragment	embossed	aqua						
31WA787/ 787**	2017.0186.06	ST 05	1	judgementa l	H Ceram	3	body sherd						indetermiante earthenware				possiby modern
31WA787/ 787**	2017.0186.06	ST 05	1	judgementa l	H Ceram	1	whiteware		base/footring fragment		white	heat altered/melted					
31WA787/ 787**	2017.0186.07	ST 06	1	judgementa 1	ı Lithic Deb	1	interior flake	quartz									
31WA787/ 787**	2017.0186.08	ST 07	1	judgementa l	a Lithic Deb	1	interior flake	quartz									
31WA787/ 787**	2017.0186.08	ST 07	1	judgementa l	Lithic Deb	4	interior flake	metavolcanic									

APPENDIX C

LOG OF REPRESENTATIVE SITE SHOVEL TESTS

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 3 (Depth and Soil <u>Texture/Color)</u>	<u>Z</u> c	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
31WA1959	1	0-10	10YR 3/2 very dark grayish brown SIL	10-30	10YR 5/6 yellowish brown SIL	30-40	10YR 6/6 brownish yellow VFSL					Positive
	2	0-3	10YR 3/2 very dark grayish brown SIL w/ gravel	3-30	10YR 5/4 yellowish brown SIL w/ gravel	30-40	10YR 6/6 brownish yellow compact SIL w/ 2.5YR 4/6 red C					Positive
	3	0-10	10YR 3/2 very dark grayish brown SIL w/ cobbles	10-25	10YR 6/6 brownish yellow SIL compact w/ 2.5YR 4/6 red C							Negative
	4	0-9	10YR 4/3 brown SIL	9-24	10YR 6/8 brownish yellow FS	24-37	7.5YR 6/8 reddish yellow SC					Positive
	5	0-7	10YR 4/3 brown SIL	7-20	10YR 6/8 brownish yellow FS	20-30	7.5YR 6/8 reddish yellow SC					Positive
	6	0-10	10YR 5/4 yellowish brown SIL w/ gravel	10-20	10YR 7/2 light gray SCL							Negative
	7	0-20	10YR 3/2 very dark grayish brown SL	20-30	10YR 5/4 yellowish brown SCL							Negative
	8	0-20	10YR 5/6 yellowish brown SIL	20-35	10YR 6/6 brownish yellow SIL							Negative
	9	0-15	10YR 5/6 yellowish brown SIL	15-25	10YR 6/6 brownish yellow SIL compact w/ 2.5YR 4/6 red C							Negative
	10	0-26	10YR 3/2 very dark grayish brown L	26-36	10YR 5/4 yellowish brown SL							Negative
	11	0-20	10YR 5/4 yellowish brown SIL w/ gravel and cobbles	20-25	10YR 6/6 brownish yellow SIL w/ gravel and cobbles	25-37	10YR 5/8 yellowish brown SIC w/ gravel and cobbles					Negative
	12	0-5	10YR 5/4 yellowish brown SIL w/ gravel and cobbles	5-8	10YR 6/6 brownish yellow SIL w/ gravel and cobbles	8-25	10YR 5/8 yellowish brown SIC w/ gravel and cobbles					Negative
	13	0-12	10YR 3/2 very dark grayish brown SL w/ gravel	12-29	10YR 5/6 yellowish brown SIL w/ gravel	29-40	10YR 6/6 brownish yellow SIL w/ gravel					Positive
	14	0-26	10YR 5/4 yellowish brown SIL w/ gravel	26-34	10YR 5/8 yellowish brown SIC w/ gravel							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	15	0-5	10YR 5/4 yellowish brown SIL w/ gravel and cobbles	5-13	10YR 6/6 brownish yellow SIL w/ gravel and cobbles	13-25	10YR 5/8 yellowish brown SIC w/ gravel and cobbles					Negative
	16	0-10	10YR 5/4 yellowish brown SIL w/ gravel and cobbles	10-17	10YR 6/6 brownish yellow SIL w/ gravel and cobbles	17-30	10YR 5/8 yellowish brown SIC w/ gravel and cobbles					Negative
	17	0-11	10YR 3/2 very dark grayish brown SIL	11-22	10YR 5/4 yellowish brown SIL w/ gravel and cobbles	22-30	10YR 5/6 yellowish brown SIL w/ gravel					Negative
	18	0-4	10YR 4/2 dark grayish brown SIL	4-40	10YR 6/6 brownish yellow SIL w/ gravel and cobbles	40-50	10YR 5/8 yellowish brown SIC					Negative
31WA1960	1	0-15	10YR 3/2 very dark grayish brown SIL	15-26	10YR 6/4 light yellowish brown SL							Positive
	2	0-16	10YR 3/2 very dark grayish brown SIL	16-26	10YR 6/8 brownish yellow SL							Positive
	3	0-9	10YR 3/2 very dark grayish brown SIL	9-21	10YR 6/8 brownish yellow SL	21-36	10YR 7/6 yellow S					Negative
	4	0-7	10YR 5/3 brown SIL	7-32	2.5YR 6/8 light red C							Negative
	5	0-15	10YR 3/2 very dark grayish brown SIL	15-30	10YR 6/8 brownish yellow SL							Negative
31WA1961	1	0-10	10YR 6/4 light yellowish brown SIL	10-32	10YR 7/2 light gray S	32-43	10YR 7/2 light gray S mottled w/ 10YR 6/8 reddish yellow SC					Positive
	2	0-12	10YR 6/2 light brownish gray LS	12-31	10YR 6/8 brownish yellow SL							Negative
	3	0-18	10YR 4/3 brown SIL	18-32	10YR 7/6 yellow S mottled w/ Zone 3	32-42	10YR 7/8 yellow SC					Negative
	4	0-25	10YR 6/3 pale brown SL	25-30	Hydric							Negative
	5	0-10	10YR 5/4 yellowish brown SIL	10-20	10YR 7/6 yellow SC	20-30	10YR 7/8 yellow SC					Negative
	6	0-27	10YR 6/3 pale brown SL	27-31	Hydric							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ <u>Texture/Color)</u>	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	7	0-15	10YR 5/2 grayish brown CL mottled w/ 10YR 5/6 yellowish brown SC containing redox	15+	Hydric							Negative
31WA1962	1	0-20	10YR 3/3 dark brown L	20-34	10YR 7/6 yellow S							Positive
	2	0-14	10YR 3/3 dark brown L	14-32	10YR 5/4 yellowish brown SL							Negative
	3	0-13	10YR 3/3 dark brown L	13-30	10YR 5/4 yellowish brown SL							Negative
	4	0-5	10YR 3/3 dark brown L	5-20	10YR 6/6 brownish yellow SIL	20-30	10YR 4/4 dark yellowish brown SICL					Negative
	5	0-13	10YR 3/3 dark brown L	13-25	2.5YR 7/6 light red SC							Negative
31WA1963	1	0-4	10YR 6/2 light brownish gray SIL w/ gravel	4-30	10YR 6/6 brownish yellow SIC							Positive
	2	0-10	10YR 6/2 light brownish gray SIL w/ gravel and cobbles	10-26	10YR 6/6 brownish yellow SIC							Negative
	3	0-9	10YR 6/2 light brownish gray SIL w/ cobbles	9-32	10YR 6/6 brownish yellow SIC w/ cobbles							Negative
	4	0-12	10YR 6/2 light brownish gray SIL w/ gravel	12-30	10YR 6/6 brownish yellow SIC w/ iron oxide stains							Negative
	5	0-20	10YR 6/2 light brownish gray SIL	20-32	10YR 6/6 brownish yellow SIC							Negative
	6	0-14	10YR 6/2 light brownish gray SIL w/ gravel	14-24	10YR 6/6 brownish yellow SIC							Negative
	7	0-13	10YR 5/2 grayish brown SIL	13-23	10YR 6/4 light yellowish brown SL							Negative
	8	0-15	10YR 7/2 light gray SIL	15-25	10YR 7/1 light gray SICL							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil_ <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	9	0-15	10YR 5/6 yellowish brown SIL	15-25	10YR 4/4 dark yellowish brown SICL							
31WA1964	1	0-21	5YR 5/1 gray COS	21-31	10YR 5/8 yellowish brown S							Positive
	2	0-19	5YR 5/1 gray COS	19-40	2.5Y 7/6 yellowish FS	40-50	10YR 7/6 yellowish SC					Positive
	3	0-20	5YR 5/6 olive SCL, disturbed	20-31	2.5Y 5/4 reddish brown COS mottled w/ 5YR 5/6 olive SCL							Negative
	4	0-15	10YR 5/8 yellowish brown S, disturbed	15-25	2.5Y 5/4 reddish brown SIC							Negative
	5	0-10	10YR 5/6 yellowish brown SIL	10-30	10YR 8/6 yellow SIL	30-40	10YR 6/8 brownish yellow SIC					Negative
	6	0-10	10YR 3/3 dark brown SIC, disturbed	10-36	10YR 6/2 light brownish gray I mottled w/ 10YR 5/8 yellow brown SIC	36-96	7.5 YR 6/8 reddish yellow SIC					Positive
	7	0-17	10YR 4/4 dark yellowish brown SL	17-30	2.5Y 7/6 yellow S w/ gravel	30-40	2.5Y 8/2 pale yellow gravel	40-48	10YR 7/8 yellow S w/ gravel			Positive
	8	0-48	10YR 3/2 very dark grayish brown SIC	18-30	10YR 6/2 light brownish gray SIC mottled w/ 5YR 5/8 yellow red SIC							Negative
	9	0-30	5Y 5/8 yellowish red C mottled w/ 5YR 6/8 reddish yellow C									Negative
	10	0-10	10YR 5/3 brown SIL	10-21	10YR 7/3 very pale brown SIL	21-46	5Y 8/2 pale yellow SIC					Negative
	11	0-10	5YR 5/1 gray COS	10-40	5YR 8/1 white FS	40-50	10YR 7/6 yellow CL					Negative
	12	0-13	5YR 5/1 gray COS	13-28	5YR 8/1 white FS	28-38	10YR 7/6 yellow SCL					Positive
	13	0-10	10YR 3/2 very dark grayish brown SIC	10-15	10YR 5/2 grayish brown SIC	15-20	10YR 6/8 brownish yellow SIC					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	<u>ne 3 (Depth and Soil</u> <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	14	0-15	10YR 4/4 dark yellowish brown SL mottled w/ 2.5Y 7/6 yellowish SC, disturbed	15-37	2.5Y 7/6 yellow S w/ gravel							Negative
	15	0-15	10YR 3/3 dark brown SIL	15-29	10YR 5/3 brown SIL	29-43	10YR 7/4 very pale brown SIC					Negative
	16	0-10	10YR 2/2 very dark brown SL	10-20	10YR 7/1 light gray COS w/ gravel							Negative
	17	0-17	10YR 2/2 very dark brown SL	17-34	10YR 7/1 light gray COS w/ gravel							Negative
	18	0-20	10YR 3/2 very dark grayish brown SL	20-30	10YR 7/4 very pale brown SCL mottled w/ Zone 1							Negative
	19	0-26	10YR 4/1 dark gray SL	26-34	10YR 7/4 very pale brown SCL w/ rocks	34-48	10YR 5/8 yellowish brown SIC					Negative
	20	0-26	2.5Y 3/2 very darl grayish brown SIC, disturbed	26-30	Hydric							Negative
31WA1965	1	0-8	10YR 4/4 dark yellowish brown SIL	8-18	7.5YR 4/6 strong brown SIC							Positive
	2	0-15	7.5YR 4/4 brown SICL	15-25	5YR 6/4 pale olive SIC							Negative
	3	0-18	7.5YR 4/4 brown SIL	18-28	2.5YR 7/8 yellow SIC							Negative
	4	0-7	7.5YR 4/4 brown SICL	7-15	5YR 6/4 pale olive SIC							Negative
	5	0-10	7.5YR 4/4 brown SICL	10-23	5YR 6/4 pale olive SIC							Negative
31WA1966	1	0-6	10YR 4/3 brown SIL	6-16	10YR 6/6 brownish yellow SIC	16-26	7.5YR 7/6 reddish yellow SICL					Positive
	2	0-15	10YR 4/3 brown SIL	15-30	7.5YR 7/6 reddish yellow SICL							Negative
	3	0-9	10YR 6/3 pale brown SIL	9-27	10YR 5/4 yellow brown SIL	27-37	10YR 7/6 yellow FS	37-50	10YR 7/8 yellow FS w/ C			Negative
31WA1967	1	0-18	10YR 4/4 dark yellow brown SIL	18-38	10YR 7/4 very pale brown SIL	38-44	7.5YR 5/6 strong brown SICL					Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil_ <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil <u>Texture/Color)</u>	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	2	0-22	10YR 3/3 dark brown SIC	22-29	10YR 6/6 brownish yellow SIC	29-32	5Y 5/8 yellowish red C					Negative
	3	0-16	10YR 3/3 dark brown SICL	16-34	10YR 6/6 brownish yellow SIC	34-45	10YR 7/8 yellow C					Negative
	4	0-17	10YR 4/4 dark yellowish brown SL	17-52	10YR 5/6 yellowish brown SL	52-64	7.5YR 5/6 strong brown SCL					Negative
	5	0-24	10YR 3/3 dark brown SICL	24-37	5Y 5/8 yellowish red C							Negative
31WA1968	1	0-11	10YR 5/4 yellowish brown SC w/ gravel	11-21	10YR 5/4 yellowish brown SCL							Positive
	2	0-11	10YR 5/2 grayish brown SL w/ gravel	11-14	10YR 5/8 yellowish brown SCL w/ cobbles	14-24	7.5YR 6/8 reddish yellow SC					Negative
	3	0-12	10YR 5/2 grayish brown SL	12-22	10YR 5/8 yellowish brown SCL	22-35	7.5YR 6/8 reddish yellow SC					Negative
	4	0-9	10YR 5/4 yellowish brown SC	9-24	10YR 6/8 brownish yellow C							Negative
	5	0-4	10YR 5/4 yellowish brown SIL	4-14	10YR 6/8 brownish yellow SIC							Negative
	6	0-20	10YR 5/2 grayish brown SL	20-34	10YR 5/8 yellowish brown SCL							Negative
	7	0-8	10YR 6/8 brownish yellow SL	8-20	10YR 4/6 dark yellowish brown SCL							Negative
	8	0-10	10YR 5/4 yellowish brown SC	10-20	10YR 5/4 yellowish brown SCL							Negative
	9	0-15	10YR 5/2 grayish brown SIL	15-30	7.5YR 6/8 reddish yellow SIC							Negative
	10	0-23	10YR 5/2 grayish brown SL	23-33	10YR 5/8 yellowish brown SCL							Positive
	11	0-16	10YR 6/4 light yellowish brown SL	16-27	7.5YR 5/8 strong brown SIC							Negative
	12	0-16	10YR 5/2 grayish brown SIL	16-27	10YR 5/8 yellowish brown SICL							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil	<u>Zo</u>	ne 4 (Depth and Soil	Zon	e 5 (Depth and Soil Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	13	0-19	10YR 5/4 yellowish brown SIL	19-31	7.5YR 6/8 reddish yellow SIC							Negative
	14	0-27	10YR 5/4 yellowish brown SIL w/ gravel	27-37	7.5YR 6/8 reddish yellow SIC							Negative
	15	0-20	10YR 5/4 yellowish brown SIL w/ gravel	20-30	7.5YR 6/8 reddish yellow SIC w/ gravel							Negative
	16	0-15	10YR 4/4 dark yellowish brown SIL	15-28	5YR 5/6 yellowish red SICL							Negative
31WA1969	1	0-16	10YR 4/4 dark yellowish brown SCL w/ gravel	16-26	5YR 5/8 yellowish red SCL							Positive
	2	0-15	10YR 4/4 dark yellowish brown SCL w/ gravel	15-25	5YR 5/8 yellowish red SCL							Negative
	3	0-20	10YR 3/2 very dark grayish brown SCL	20-30	5YR 6/6 reddish yellow SCL							Negative
	4	0-30	10YR 5/4 yellowish brown SCL	30-40	7.5YR 6/8 reddish yellow SC							Negative
	5	0-18	10YR 5/4 yellowish brown SCL	18-31	7.5YR 6/8 reddish yellow SC							Negative
	6	0-16	10YR 4/4 dark yellowish brown SCL	16-26	5YR 5/8 yellowish red SCL							Negative
	7	0-17	10YR 5/4 yellowish brown SCL	17-32	7.5YR 6/8 reddish yellow SC							Negative
	8	0-10	10YR 4/2 dark grayish brown SCL	10-25	10YR 5/4 yellowish brown SCL	25-25	10YR 7/1 light gray SC w/ redox, hydric					Negative
	9	0-14	10YR 4/4 dark yellowish brown SCL	14-24	5YR 5/8 yellowish red SCL							Negative
31WA1970	1	0-20	10YR 3/4 SICL	20-30	5YR 5/8 yellowish red CL							Positive
	2	0-22	10YR 5/3 SL	22-32	10YR 6/6 brownish yellow SC	32-55	10YR 6/8 brownish yellow C					Negative
	3	0-22	10YR 3/4 SICL	22-32	5YR 5/8 yellowish red CL							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	4	0-25	10YR 3/4 SICL	25-35	10YR 8/6 yellowish SIL	35-40	5YR 5/8 yellowish red SIC					Positive
	5	0-16	10YR 4/4 dark yellowish brown SICL	16-25	10YR 5/4 yellowish brown SICL	25-35	10YR 6/8 brownish yellow SIC					Negative
	6	0-25	10YR 3/4 SICL	25-35	10YR 6/6 brownish yellow SIC	35-50	10YR 6/8 brownish yellow C					Negative
	7	0-32	10YR 4/3 brown SIL w/ gravel	32-42	10YR 5/4 yellow brown SIL w/ gravel	42-	rock impasse					Negative
	8	0-20	10YR 4/4 dark yellowish brown L	20-27	7.5YR 4/6 strong brown SC w/ gravel	27-45	7.5YR 5/8 strong brown C w/ gravel					Negative
	9	0-13	10YR 5/4 yellowish brown SIL	13-16	10YR 7/4 very pale brown SICL	16-26	5YR 5/6 yellow red SIC					Negative
	10	0-20	10YR 5/4 yellowish brown SIL	20-39	5YR 5/6 yellowish red SIC							Negative
	11	0-25	10YR 2/2 very dark brown SL	25-50	7.5YR 5/8 yellowish red C							Positive
	12	0-20	10YR 3/3 dark brown SICL	20-36	10YR 6/6 brownish yellow SCL	36-46	10YR 6/8 brownish yellow SC					Negative
	13	0-17	10YR 3/3 dark brown SICL w/ gravel	17-23	10YR 6/6 brownish yellow SCL w/ gravel	23-35	10YR 6/8 brownish yellow SC w/ gravel					Negative
	14	0-19	10YR 3/3 dark brown SL w/ gravel	19-36	10YR 6/6 brownish yellow SL w/ gravel	36-50	10YR 6/8 brownish yellow SCL w/ gravel					Negative
	15	0-19	10YR 3/3 dark brown SL	19-29	10YR 6/8 brownish yellow SCL							Negative
	16	0-20	10YR 3/3 dark brown SL	20-30	10YR 6/8 brownish yellow SCL							Negative
	17	0-31	10YR 3/3 dark brown SL	19-31	10YR 6/8 brownish yellow SCL							Negative
	18	0-20	2.5Y 5/2 grayish brown SIL	20-29	2.5Y 6/4 light yellowish brown SICL	29-50	10YR 6/6 brownish yellow SC					Negative
	19	0-23	10YR 5/3 SL w/ gravel	22-33	10YR 6/6 brownish yellow SC w/ gravel	32-56	10YR 6/8 brownish yellow C w/ gravel					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil_ <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	20	0-30	10YR 4/3 brown SIL	30-40	7.5YR 5/4 brown SIC							Negative
31WA1971	1	0-22	5Y 4/3 olive SIL	22-38	2.5YR 5/8 red SICL							Positive
	2	0-13	10YR 3/3 dark brown SL	13-29	2.5Y 7/6 yellow SIL	29-39	10YR 7/8 yellow SIC					Negative
	3	0-18	10YR 3/2 very dark grayish brown SIL	22-38	7.5YR 5/8 strong brown CL							Negative
	4	0-20	7.5YR 4/4 brown SIL	20-39	2.5Y 7/6 yellow SIL w/ gravel							Negative
	5	0-12	7.5YR 4/4 brown SIL	12-26	2.5Y 7/6 yellow SIL	26-33	2.5YR 6/8 light red CL					Negative
	6	0-22	7.5YR 4/4 brown SIL	22-32	2.5YR 5/6 red SICL							Positive
	7	0-27	7.5YR 4/4 brown SIL	27-46	10YR 5/8 yellowish brown C							Negative
	8	0-22	10YR 3/2 very dark grayish brown SIL	22-38	7.5YR 5/8 strong brown CL							Negative
31WA1972	1	0-22	10YR 5/4 yellowish brown SL	22-36	2.5YR 5/6 red C							Positive
	2	0-14	10YR 3/4 dark yellowish brown SICL	14-25	10YR 3/4 dark yellowish brown SICL	25-27	2.5YR 5/6 red C					Negative
	3	0-18	10YR 4/4 dark yellowish brown SL w/ gravel	18-40	7.5YR 5/8 strong brown C w/ gravel							Negative
	4	0-28	10YR 3/4 dark yellowish brown SICL	28-40	7.5YR 7/8 reddish yellow CL							Negative
	5	0-20	10YR 3/4 dark yellowish brown SICL	20-30	5YR 5/8 yellowish red CL							Negative
	6	0-18	10YR 3/4 dark yellowish brown SICL	18-28	2.5YR 5/6 red C							Negative
	7	0-20	10YR 3/3 dark brown SIL	20-25	2.5YR 6/8 light red C							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
31WA1855	1	0-10	10YR 3/3 dark brown SL w/ rocks	10-40	7.5YR 4/4 brown LS w/ rocks	40-42	7.5YR 5/8 strong brown C w/ rocks	42+	rock impasse			Negative
	2	0-15	10YR 3/3 dark brown SL w/ gravel	15-30	7.5YR 4/4 brown LS w/ gravel	30-35	7.5YR 5/8 strong brown C w/ gravel					Negative
	3	0-5	10YR 3/3 dark brown SL	5-18	10YR 4/3 brown LS	18-35	10YR 5/6 yellowish brown SIC					Negative
	4	0-8	10YR 3/3 dark brown SL	8-31	10YR 4/3 brown LS	31-35	10YR 5/6 yellowish brown SIC					Negative
	5	0-23	10YR 3/3 dark brown SL	23-40	10YR 5/6 yellowish brown SIC w/ rocks							Negative
	6	0-20	10YR 3/3 dark brown SL	20-27	7.5YR 5/8 strong brown C							Negative
	7	0-24	10YR 3/3 dark brown SL	24-34	10YR 6/8 brownish yellow SICL							Negative
	8	0-24	10YR 3/3 dark brown SL	24-39	10YR 6/8 brownish yellow SICL							Negative
	9	0-25	10YR 4/3 brown LS w/ gravel	25-38	7.5YR 5/8 strong brown CL w/ gravel							Negative
	10	0-17	7.5YR 5/8 strong brown C w/ gravel -disturbed									Negative
	11	0-25	10YR 4/3 brown LS w/ gravel and mottled w/ 7.5YR 5/8 strong brown C	25-85	7.5YR 5/8 strong brown C w/ gravel							Negative
	12	0-20	7.5YR 5/8 strong brown C w/ gravel -disturbed									Negative
31WA1973 &1973**	1	0-17	10YR 4/2 dark grayish brown I	17-22	10YR 6/8 brownish yellow SIC	22-30	5YR 5/8 yellowish red SIC					Positive
	2	0-20	10YR 4/2 dark grayish brown I w/ cobbles	20-38	10YR 6/8 brownish yellow SIC w/ cobbles	38-45	5YR 5/8 yellowish red SIC					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Z</u> (one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil <u>Texture/Color)</u>	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	3	0-23	10YR 3/4 dark yellow brown SIL	23-33	7.5YR 5/8 strong brown CL							Positive
	4	0-15	10YR 4/3 brown SIL	15-26	10YR 6/2 light brownish gray SIC mottled w/ 10YR 6/8 brownish yellow SIC							Negative
	5	0-15	10YR 4/3 brown SIL	15-26	7.5YR 5/8 strong brown CL							Negative
	6	0-24	10YR 6/2 light brownish gray SIL	34-34	7.5YR 5/8 strong brown CL							Negative
	7	0-20	10YR 4/4 dark yellowish brown SL	20-44	7.5YR 5/6 strong brown SCL mottled w/ 10YR 7/4 very pale brown SCL							Positive
	8	0-20	10YR 3/4 dark yellowish brown SIL	20-33	10YR 7/4 very pale brown SICL	33-46	10YR 6/8 brownish yellow SIC					Positive
	9	0-18	10YR 4/4 dark yellowish brown SL	18-25	10YR 7/4 very pale brown SICL	25-35	7.5YR 5/6 strong brown SICL					Positive
	10	0-7	10YR 3/4 dark yellowish brown SIL	7-13	10YR 7/4 very pale brown SCL	13-23	10YR 6/8 brownish yellow SIC					Negative
	14	0-20	10YR 4/2 dark grayish brown I	20-26	10YR 4/2 dark grayish brown I							Negative
	15	0-23	10YR 3/2 very dark grayish brown SIL	23-33	10YR 6/3 pale brown SIL	33-45	7.5YR 5/8 strong brown CL					Negative
	16	0-20	10YR 4/2 dark grayish brown SCL	20-30	10YR 6/2 light brownish gray SL	30-50	10YR 6/8 brownish yellow SC					Negative
	17	0-22	10YR 3/3 dark brown SL	22-36	2.5YR 5/4 reddish brown SIL	36-40	2.5YR 6/4 light red SIL					Negative
	18	0-17	10YR 5/4 yellowish brown SIL	17-24	10YR 6/3 pale brown CL							Positive
	20	0-15	10YR 3/3 dark brown SIL	15-39	2.5YR 6/4 light red SIL	39-48	10YR 6/8 brownish yellow SIC					Positive
	21	0-15	10YR 3/2 very dark grayish brown SIL	15-33	10YR 6/3 pale brown SIL	33-40	10YR 4/6 dark yellowish brown CL					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil <u>Texture/Color)</u>	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	22	0-17	10YR 3/2 very dark grayish brown SIL	17-27	10YR 6/3 pale brown SIL	27-37	7.5YR 5/8 strong brown CL					Negative
	23	0-17	10YR 4/2 dark grayish brown SIL	17-30	10YR 6/3 pale brown SIL	30-40	10YR 4/2 dark grayish brown I					Positive
	25	0-17	10YR 4/3 brown SL	17-30	10YR 5/3 brown SCL							Negative
31WA1974	3	0-5	10YR 5/4 yellowish brown SL	5-32	10YR 6/6 brownish yellow COS	32-42	10YR 7/6 yellow C					Positive
	4	0-10	10YR 2/2 very dark brown SL	10-20	10YR 6/8 brownish yellow SL	20-30	7.5YR 5/8 strong brown CL					Positive
	12	0-7	10YR 3/2 very dark grayish brown SIL	7-23	10YR 4/2 dark grayish brown Sl	23-33	10YR 6/8 brownish yellow SL w/ rock and gravel					Negative
	13	0-12	10YR 4/6 dark yellowish brown SIL	12-32	10YR 7/6 yellow COS	32-60	10YR 6/8 brownish yellow COSC	60-70	7.5YR 6/6 reddish yellow COSC mottled w/ 10YR 6/8 brownish yellow COSC			Negative
	14	0-9	10YR 3/4 dark yellow brown SL	9-19	10YR 6/8 brownish yellow SL							Negative
	15	0-10	10YR 5/6 yellowish brown SL	10-29	10YR 7/6 yellowish SIL - wet	29-39	7.5YR 6/6 reddish yellow C -wet					Negative
	16	0-8	10YR 5/6 yellowish brown SL	8-20	10YR 7/6 yellowish SIL	20-30	7.5YR 6/6 reddish yellow C					Negative
	17	0-50	10YR 6/8 brownish yellow SIL mottled w/ 10YR 3/2 very dark grayish brown SIL -disturbed									Negative
	18	0-21	10YR 5/4 yellowish brown SL	21-29	7.5YR 5/6 strong brown SCL	29+	rock impasse					Negative
	19	0-48	10YR 7/6 yellow COS	48-58	7.5YR 6/6 reddish yellow C							Negative
	20	0-12	10YR 2/2 very dark brown SL	12-28	7.5YR 5/8 strong brown CL							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil	<u>Zo</u>	ne 4 (Depth and Soil_ <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	21	0-10	10YR 2/2 very dark brown SL mottled w/ 7.5 5/8 strong brown C -disturbed									Negative
	28	0-9	10YR 3/4 dark yellowish brown SL	9-19	10YR 6/8 brownish yellow SL							Negative
	30	0-6	10YR 3/2 very dark grayish brown SIL	6-20	10YR 5/4 yellowish brown SIL	20-30	7.5YR 5/8 strong brown CL					Negative
31WA1975	5	0-14	10YR 3/4 dark yellowish brown SL	14-27	10YR 6/8 brownish yellow COS	27-37	2.5Y 7/3 pale yellow COS					Positive
	22	0-9	10YR 2/2 very dark brown SIL	9-28	10YR 5/4 yellowish brown SILC	28+	rock impasse					Negative
	23	0-20	10YR 4/3 brown SL	20-36	10YR 6/8 brownish yellow LS	26-46	10YR 6/3 pale brown LS					Negative
	24	0-8	10YR 5/4 yellowish brown SL	8-25	2.5Y 7/4 pale yellow S	25-35	2.5Y 7/3 pale yellow SC					Negative
	26	0-12	10YR 4/6 dark yellowish brown SIL	12-24	10YR 7/6 yellow COS	24-53	10YR 7/6 yellow COS mottled w/ 7.5YR 6/6 reddish yellow COSC w/ gravel	53-63	7.5YR 6/6 reddish yellow SC			Negative
	27	0-9	10YR 3/4 dark yellowish brown SL	9-19	2.5YR 6/4 light red SL mottled w/ 5YR 4/6 yellowish red SC							Negative
	28	0-7	10YR 5/4 yellowish brown SL	7-24	10YR 6/6 brownish yellow COS	24-34	10YR 7/6 yellow C					Negative
	38	0-14	10YR 4/3 brown SL	14-18	2.5Y 7/4 pale yellow SCL	18+	rock impasse					Negative
31WA1976 &1976**	1	0-7	7.5YR 4/6 strong brown SCL	7-17	5YR 5/6 olive SC							Positive
	2	0-8	10YR 3/4 dark yellowish brown SL	8-19	10YR 6/4 light yellowish brown LS	19-29	10YR 5/6 yellowsih brown SCL mottled w/ 2.5YR 4/8 red SCL					Positive
	6	0-9	10YR 6/6 brownish yellow SL	9-32	10YR 5/8 yellowish brown SC	32-42	5YR 5/6 yellowish brown C					Negative
	7	0-10	10YR 4/2 dark grayish brown COS	10-18	10YR 6/8 brownsih yellow COS	10-28	7.5YR 5/8 strong brown SC					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil_ <u>Texture/Color)</u>	<u>Z</u> c	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	8	0-11	10YR 5/6 yellwosih brown SL	11-38	10YR 7/6 yellow COS -wet	38-48	7.5YR 6/6 reddish yellow C -wet					Negative
	9	0-9	10YR 5/6 yellwosih brown SL	9-23	10YR 7/6 yellow SIC	23-33	7.5YR 6/6 reddish yellow C					Negative
	10	0-5	10YR 6/6 brownish yellow SIL	5-23	10YR 5/8 yellowish brown SL	23-33	5YR 5/6 yellowish red C					Negative
	11	0-10	10YR 2/2 very dark brown SL	10-20	7.5YR 5/8 strong brown SIC							Negative
	31	0-17	2.5YR 6/4 light yellowish brown SCL	17-27	2.5YR 5/8 red SC							Negative
	32	0-7	5YR 4/4 reddish brown SCL	7-13	5YR 6/4 pale olive LS	13-32	2.5YR 4/8 red SC					Negative
	33	0-10	10YR 4/2 dark grayish brown SL	10-26	7.5YR 5/8 strong brown SC w/ gravel							Negative
	34	0-13	7.5YR 4/6 strong brown SCL	13-23	5YR 5/8 yellowish red SCL							Negative
	35	0-28	5YR 4/6 yellowish red SCL	28-38	2.5YR 4/8 red SC							Negative
	36	0-20	10YR 5/6 yellowish brown	20-30	2.5YR 4/8 red C							Negative
	37	0-19	10YR 4/4 dark yellow brownSL	19-29	5YR 5/5 yellowish red C							Negative
31WA1977**	1	0-16	10YR 5/4 yellowish brown SIL	16-26	7.5YR 6/8 reddish yellow SIC							Positive
	2	0-24	10YR 4/3 brown SIL	24-34	10YR 6/3 pale brown SL w/ gravel							Negative
	3	0-22	10YR 5/4 yellowish brown SICL	22-32	10YR 5/6 yellowish brown SIC							Positive
	4	0-25	10YR 4/3 brown SIL	25-35	10YR 6/2 light brownish gray SIL							Positive
	5	0-24	10YR 5/4 yellowish brown SICL	24-40	10YR 5/6 yellowish brown SIC							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil	<u>Zo</u>	ne 4 (Depth and Soil	Zon	e 5 (Depth and Soil Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	6	0-23	10YR 4/3 brown SIL	23-33	10YR 6/3 pale brown SIL w/ rock and gravel							Negative
	7	0-26	10YR 5/4 yellowish brown SIL	26-	rock impasse							Negative
	8	0-15	10YR 4/3 brown SL	15-25	10YR 6/3 pale brown SL w/ gravel							Negative
	9	0-18	10YR 6/4 light yellowish brown SIL	18-28	10YR 6/8 brownish yellow SIC							Negative
	10	0-25	10YR 4/3 brown SIL w/ rock	25-35	7.5YR 5/8 strong brown SIC							Negative
	11	0-18	10YR 6/4 light yellowish brown mottled w/ 10YR 5/6 yellowish brown SICL									Negative
	12	0-33	10YR 4/4 dark yellowish brown w/ gravel	33-43	10YR 6/8 brownish yellow SL w/ gravel							Negative
	13	0-17	10YR 5/4 yellowish brown SIL	17-27	7/5YR 6/8 reddish yellow SIC							Positive
	14	0-23	10YR 6/4 light yellowish brown SIL	23-33	10YR 5/6 yellowish brown SICL							Negative
	15	0-23	10YR 4/3 brown SIL	23-28	10YR 6/2 light brownish gray SIL w/gravel	28+	rock/gravel impasse					Negative
	16	0-23	10YR 4/2 dark grayish brown SIL	23-33	10YR 6/2 light brownish gray SICL mottled w/ 10YR 6/8 brownish yellow SIL w/ rock and gravel							Negative
	17	0-28	10YR 5/4 yellowish brown SIL	28-39	7/5YR 6/8 reddish yellow SIC							Negative
	18	0-18	10YR 5/4 yellowish brown SIL	18-28	10YR 6/4 light yellowish brown SIC							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	one 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	19	0-40	10YR 4/2 dark grayish brown SL w/ rocks	40-50	10YR 6/2 light brownish gray w/ rocks							Negative
31WA1978&1 978**	1	0-21	2.5YR 3/3 dark brown SIL	21-34	2.5YR 6/4 light yellowish brown SIC	34-38	10YR 6/8 brownish yellow SIC					Positive
	2	0-26	2.5YR 3/3 dark brown SIL	26-34	2.5YR 6/4 light yellowish brown SIC	34-36	10YR 6/8 brownish yellow SIC					Negative
	3	0-23	10YR 4/2 dark grayish brown SIL	23-33	10YR 6/2 light brownish gray SIL w/ gravel							Positive
	5	0-21	10YR 5/4 yellowish brown SIL	21-24	10YR 7/6 yellow SIC							Positive
	6	0-16	10YR 3/2 very dark grayish brown SIL	16-26	10YR 6/2 light brownish gray SIL							Positive
	7	0-24	10YR 4/2 dark grayish brown SIL	24-34	10YR 6/2 light brownish gray SIL							Negative
	8	0-15	10YR 4/2 dark grayish brown SIL	15-25	10YR 6/2 light brownish gray SIL							Negative
	9	0-28	10YR 5/4 yellowish brown SIL	28-40	10YR 7/6 yellow SIC mottled w/ 10YR 5/6 yellowish brown SIC							Negative
	11	0-10	10YR 3/3 dark brown SIL	10-23	10YR 5/6 yellowish brown SICL	23-37	7.5YR 6/8 reddish yellow SC					Negative
	12	0-8	10YR 4/4 dark yellowish brown SIC w/ gravel - disturbed	8-22	2.5Y 5/6 light olive brown SIC mottled w/ 7.5Y 6/8 reddish yellow SIC w/ gravel -disturbed							Negative
	13	0-21	10YR 5/6 yellowish brown SCL	21-33	7.5YR 6/8 reddish yellow SC							Negative
	14	0-30	10YR 5/4 yellowish brown SIC	30-40	10YR 5/8 yellowish brown SIC							Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	15	0-24	2.5Y 4/2 dark grayish brown SICL w/ gravel	24-34	2.5Y 6/4 light yellowish brown mottled w/ 7.5YR 5/8 strong brown SIC w/ gravel -disturbed							Negative
	17	0-20	10YR 4/3 brown SIC	20-30	7.5YR 6/8 reddish yellow SC							Negative
	18	0-19	10YR 3/3 dark brown SIL	19-22	10YR 5/4 yellowish brown SIC	22-32	7.5YR 6/8 reddish yellow SC					Negative
	19	0-18	2.5Y 4/2 dark grayish brown SICL w/ gravel	18-28	7.5YR 5/8 strong brown SIC w/ gravel							Negative
31WA1899	I-2	0-26	2.5Y 4/4 olive brown SIL	26-29	2.5YR 6/8 light red SIL	29-31	10YR 5/8 yellowish brown SIC					Negative
	I-3	0-22	10YR 4/4 dark yellow brown	22-26	2.5YR 6/8 light red SIL	26-30	10YR 5/8 yellowish brown SIC					Negative
31WA1979	1	0-16	10YR 5/4 yellow brown SIC	16-21	5YR 5/8 yellowish red S w/ gravel	21-37	10YR 4/2 dark grayish brown SC w/ hydric properties					Positive
	2	0-6	10YR 4/2 dark grayish brown SICL	6-14	10YR 5/4 yellowish brown SICL w/ pockets of 5YR 5/8 yellowish red SICL							Negative
	3	0-10	7.5YR 5/4 brown SICL	10-30	5YR 5/8 yellowish red SCL mottles w/ 7.5 YR 6/4 light brown SCL w/ gravel							Negative
	4	0-23	10YR 4/2 dark grayish brown SICL	23-33	10YR 7/2 light gray CL mottled w/ 5YR 5/8 yellowish red C, hydric properties							Negative
	5	0-27	10YR 4/2 dark grayish brown SICL	27-37	10YR 5/8 yellowish brown SIC w/ redox							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil_ <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	6	0-14	10YR 5/4 yellowish brown SIC, mottled w/ several colors	14-16	5YR 5/8 yellowish red SC, very friable	16-30	10YR 5/2 grayish brown SICL, mottled w/ several colors					Negative
	7	0-15	10YR 5/4 yellowish brown SIC	15-28	7.5YR 6/8 reddish yellow SIC w/ gravel							Negative
	8	0-10	7.5YR 6/8 reddish yellow C									Negative
	9	0-25	10YR 6/6 brownish yellow SIL	25-35	10YR 5/2 grayish brown SIL							Negative
31WA1980	1	0-27	10YR 5/4 yellowish brown SL	27-31	10YR 6/6 brownish yellow SCL w/ gravel	31-36	7.5YR 6/8 reddish yellow SC					Negative
31WA1981	1	0-12	10YR 5/3 brown SL	12-18	10YR 6/4 light yellowish brown SL w/ inclusions of charcol and iron oxide	18-51	10YR 4/2 dark grayish brown SL	51-81	2.5Y 7/4 plae yellow SL	81-88	10YR 5/8 yellow brown SCL	Positive
	2	0-14	10YR 4/3 brown SL	14-40	2.5YR 6/4 light reddish brown SL	40-66	2.5Y 7/4 plae yellow SL w/ gravel					Negative
	3	0-12	10YR 3/2 very dark grayish brown SL	12-45	10YR 5/3 brown SL							Positive
	4	0-16	10YR 4/2 dark grayish brown SL	16-45	10YR 6/4 light yellowish brown SL	45-55	10YR 7/4 very pale brown SL					Negative
	5	0-19	10YR 5/3 brown SL	19-42	10YR 6/6 brownish yellow S	42-66	10YR 7/6 yellow S w/ cobbles					Positive
	6	0-20	10YR 4/2 dark grayish brown SL	20-40	10YR 6/4 light yellow brown SL	40-68	10YR 7/4 very pale brown SL	68-78	10YR 5/8 yellowish brown SL			Negative
	7	0-20	10YR 4/2 dark grayish brown SL	20-68	10YR 6/4 light yellowish brown SL	68-78	10YR 7/4 very pale brown SL					Negative
	8	0-23	10YR 5/2 grayish brown SIL	23-31	10YR 6/4 light yellowish brown SL	31-42	10YR 4/1 dark gray SC and turning hydric below zone					Negative
	9	0-12	10YR 4/1 dark gray SL	12-30	10YR 6/6 brownish yellow S	30-40	10YR 7/2 light gray SL					Negative
	10	0-20	10YR 3/3 dark brown SL	20-37	10YR 5/4 yellowish brown SIL	37-60	10YR 5/4 yellowish brown S w/ redox					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil	<u>Zo</u>	ne 4 (Depth and Soil_ <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	11	0-10	10YR 5/3 brown SL	10-20	10 YR 7/3 very pale brown SL	20-30	10YR 5/3 brown SL	30-40	2.5Y 7/8 yellow SL w/ gravel	40-50	10YR 7/8 yellow SCL	Negative
	12	0-20	10YR 4/2 dark grayish brown SL	20-48	10YR 6/4 light yellowish brown SL w/ cobbles and sand							Negative
	13	0-10	10YR 3/3 dark brown SL									Negative
31WA1982	1	0-12	10YR 5/3 brown SIL	12-35	10YR 6/6 brownish yellow SCL	35-53	10YR 7/8 yellow SC					Positive
	2	0-11	10YR 5/3 brown SIL	11-24	10YR 6/6 brownish yellow SCL	24-36	10YR 7/8 yellow SC					Negative
	3	0-12	10YR 5/3 brown SIL	12-26	10YR 6/6 brownish yellow SCL w/ gravel	26-35	7.5YR 6/8 reddish yellow SC					Negative
	4	0-10	10YR 5/3 brown SIL	10-24	10YR 6/6 brownish yellow SCL w/ gravel	24-34	7.5YR 6/8 reddish yellow SC					Negative
	5	0-13	10YR 4/2 dark grayish brown SIL w/ gravel	13-24	10YR 6/4 light yellow brown SL	24-30	5YR 5/4 reddish brown C					Negative
	6	0-21	10YR 6/3 pale brown SL	21-51	10YR 6/6 brownish yellow SCL	51-55	7.5YR 6/8 reddish yellow SC					Negative
	7	0-10	10YR 4/2 dark grayish brown SIL w/ gravel	10-15	10YR 5/4 yellowish brown SIL	15-30	10YR 6/8 brownish yellow SICL					Negative
	8	0-13	10YR 5/3 brown SIL	13-20	10YR 6/6 brownish yellow SCL	20-34	10YR 6/6 brownish yellow SCL w/ gravel					Negative
	9	0-29	10YR 5/3 brown SIL	29-39	10 YR 7/3 very pale brown SIL	39-46	10YR 7/6 yellow SIC					Negative
31WA1983&1 983**	1	0-20	10YR 4/4 dark yellowish brown SL	20-50	2.5Y 6/6 olive yellow S	50-52	10YR 6/8 brownish yellow SC					Positive
	2	0-22	10YR 4/4 dark yellowish brown SL	22-61	2.5Y 6/6 olive yellow S	61-80	2.5Y 7/2 light gray SC					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	3	0-26	10YR 4/4 dark yellowish brown SL	26-58	2.5Y 6/6 olive yellow S	58-71	10YR 6/8 brownish yellow SC					Negative
	4	0-23	10YR 6/4 light yellowish brown COS	23-36	10YR 7/8 yellow S	36-46	7.5YR 6/8 reddish yellow SC					Positive
	5	0-30	10YR 6/4 light yellowish brown COS	30-42	10YR 7/8 yellow S	42-53	7.5YR 6/8 reddish yellow SC					Negative
	6	0-33	10YR 4/4 dark yellowish brown SL	33-70	2.5Y 6/8 olive yellow S	70-81	10YR 6/8 brownish yellow SC					Negative
	7	0-26	10YR 4/4 dark yellowish brown SL	26-42	2.5Y 6/8 olive yellow S	42-52	10YR 6/8 brownish yellow SC					Negative
	8	0-33	10YR 4/4 dark yellowish brown SL	33-50	2.5Y 6/6 olive yellow S w/ gravel	50+	rock impasse					Positive
	9	0-21	10YR 4/4 dark yellowish brown SL mottled w/ 10YR 4/4 dark yellowish brown SL -disturbed	21-31	2.5Y 6/6 olive yellow S mottled w/ 10YR 4/4 dark yellow brown S -disturbed							Negative
	12	0-22	10YR 4/3 brown SL	22-34	10YR 6/8 brownish yellow S w/ gravel							Negative
	14	0-20	10YR 4/2 dark grayish brown SL	20-53	10YR 6/3 pale brown SL mottled w/ 10YR 6/8 brownish yellow SL							Positive
	16	0-26	10YR 6/4 light yellowish brown COS	30-42	10YR 7/8 yellow S	42-53	7.5YR 6/8 reddish yellow SC					Positive
	17	0-34	10YR 6/4 light yellowish brown COS	34-44	7.5YR 6/8 reddish yellow SC							Negative
	27	0-55	10YR 4/2 dark grayish brown S	55-78	10YR 6/3 pale brown S							Positive
	36	0-35	10YR 4/4 dark yellowish brown SL	35-75	2.5YR 6/6 light red S	75-78	10YR 6/4 light yellowish brown SCL					Negative
	43	0-23	10YR 4/3 dark yellowish brown SL	23-50	10YR 7/3 very pale brown SL	50-60	10YR 6/8 brownish yellow SL					Positive
	44	0-25	10YR 5/3 brown SL	25-35	10YR 6/8 brownish yellow S							Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil <u>Texture/Color)</u>	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	45	0-50	10YR 4/2 dark grayish brown SL	50-75	10YR 6/6 brownish yellow COS	75-90	10YR 5/8 yellowish brown SC					Negative
	49	0-29	10YR 4/2 dark grayish brown SL	29-50	10YR 6/4 light yelllowish brown SL w/gravel	50-53	10YR 5/8 yellowish brown SL -very cmpact	53+	compaction impasse			Positive
	51	0-30	10YR 4/3 dark yellowish brown SL	30-79	10YR 7/3 very pale brown S	79-89	10YR 6/8 brownish yellow S					Negative
31WA1985&1 985**	1	0-15	10YR 2/2 light gray SL	15-58	10YR 6/2 light brownish gray S	58-68	10YR 6/8 brownish yellow SC					Positive
	4	0-26	10YR 2/2 light gray SL	26-100	10YR 6/2 light brownish gray S w/ gravel							Positive
	7	0-20	10YR 2/2 light gray SL	20-60	10YR 6/2 light brownish gray S	60-73	10YR 6/8 brownish yellow S w/ gravel					Positive
	8	0-29	10YR 2/2 light gray SL	29-64	10YR 6/2 light brownish gray S	64-75	10YR 6/8 brownish yellow SC					Positive
	10	0-28	10YR 2/2 light gray SL	28-60	10YR 6/2 light brownish gray S	60-70	10YR 6/8 brownish yellow SC					Positive
	16	0-13	10YR 3/3 dark brown SL	13-100	10YR 4/6 dark yellow brown S mottled w/ 10YR 3/3 dark brown SL							Positive
	17	0-22	10YR 2/2 light gray SL	22-35	10YR 6/3 pale brown SL	35-113	10YR 6/2 light brownish gray S w/ gravel					Positive
	18	0-12	10YR 5/2 grayish brown	12-22	2.5Y 4/4 olive brown S mottled w/ 5Y 4/4 olive S	22-63	2.5Y 6/6 olive yellow SC					Positive
	22	0-30	10YR 4/3 brown CL	30-50	10YR 2/2 very dark brown CL	50+	Hydric					Negative
	30	0-15	10YR 4/2 brown SL	15-33	10YR 5/4 yellowish brown SL	33-91	2.5Y 5/4 light olive brown SL	91-100	7.5YR 7/8 reddish yellow COS w/ gravel			Negative
	34	0-15	10YR 4/2 brown SL	15-90	2.5 Y 4/4 olive brown COS	90-100	7.5 YR 5/8 strong brown SC w/ natural gravels					Positive
	35	0-32	10YR 3/3 very dark grayish brown SL mottled w/ 10YR 5/6 yellow brown SL	32-73	10YR 4/6 dark yellowish brown S	73-85	10YR 6/8 brownish yellow S mottled w/ 10YR 8/1 white S					Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	46	0-18	10YR 4/3 brown COS	18-80	2.5Y 7/4 pale yellow S	80-90	7.5YR 5/8 yellowish brown SC					Positive
	48	0-11	10YR 3/3 dark brown SL	11-46	10YR 4/4 dark yellowish brown SL -possibly fill	46-99	10YR 4/6 dark yellowish brown S					Positive
	50	0-18	10YR 3/3 very dark grayish brown SL mottled w/ 10YR 5/6 yellowish brown SL	18-98	10YR 4/6 dark yellowish brown S	98-102	10YR 6/8 brownish yellow S mottled w/ 10YR 8/1 white S					Positive
	77	0-16	10YR 4/3 brown SL	16-86	10YR 6/6 brownish yellow S	86-102	10YR 5/6 yellowish brown S					Positive
	90	0-25	2.5Y 4/4 olive brown S	25-105	2.5Y 7/6 yellow S							Negative
	93	0-25	10YR 5/4 yellowish brown SL	25-72	10YR 6/2 light brownish gray SL	72-80	10YR 5/8 yellowish brown SC					Positive
	96	0-24	10YR 5/4 yellowish brown SL	24-90	10YR 6/2 light brownish gray SL	90-95	10YR 5/8 yellowish brown SC					Negative
	97	0-9	10YR 4/1 dark gray SL	9-23	2.5Y 4/4 olive brown S	23-73	2.5Y 7/6 yellow S	73-83	7.5YR 6/8 reddish yellow SC			Positive
31WA1986**	1	0-14	10YR 3/3 dark brown LS	14-29	10YR 6/3 pale brown LS - wet							Negative
	2	0-21	10YR 3/3 dark brown LS	21-41	10YR 6/3 pale brown LS - wet							Negative
	3	0-32	10YR 3/3 dark brown LS	32-39	10YR 6/3 pale brown LS - wet							Positive
	4	0-14	10YR 5/4 yellowish brown SIL	14-25	10YR 6/6 brownish yellowish SIC mottled w/ 5YR 4/6 yellowish red clay w/ concretions							Negative
	5	0-5	10YR 4/4 dark yellowish brown SIL	5+	Hydric							Negative
	6	0-11	10YR 5/4 yellowish brown SIL	11-18	10YR 6/4 light yellowish brown CL -water perk.	18+	Hydric					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	7	0-8	10YR 4/3 brown SIL	8-20	10YR 5/4 yellowish brown SL -water perk	20-30	2.5YR 5/8 red C					Negative
	8	0-9	10YR 4/3 brown SIL	8-21	10YR 5/4 yellowish brown SL -water perk	20-31	2.5YR 5/8 red C					Negative
	9	0-20	10YR 4/3 brown SIL	20-40	10YR 5/4 yellowish brown SL	40-50	2.5YR 5/8 red C					Negative
	10	0-10	2.5YR 5/8 red C	10+	Hydric							Negative
31WA1988	1	0-26	10YR 4/2 dark grayish brown COS	26-51	2.5Y 7/4 pale yellow S	51-64	10YR 6/8 brownish yellow					Positive
	2	0-17	10YR 5/4 yellowish brown SL	17-26	10YR 7/6YR yellow LS							Negative
	3	0-19	10YR 5/4 yellowish brown SL	19-59	10YR 7/4 very pale brown LS	59+	5YR 4/6 yellowish red SC					Negative
	4	0-28	10YR 5/4 yellowish brown SL	28-69	10YR 7/4 very pale brown LS	69-75	5YR 4/6 yellowish red SC					Negative
	5	0-20	10YR 5/4 yellowish brown SL	20-35	10YR 7/4 very pale brown LS	35-46	5YR 4/6 yellowish red SC					Negative
	6	0-10	10YR 2/2 very dark brown	10-54	10YR 6/2 light brownish gray S	54-65	10YR 6/8 brownish yellow SC					Negative
	7	0-21	10YR 5/4 yellowish brown SL	21-68	10YR 7/4 very pale brown LS	68-78	5YR 4/6 yellowish red SC					Positive
	8	0-14	10YR 6/8 brownish yellow COS	14-27	10YR 2/2 very dark brown COS	27-35	10YR 6/2 light brownish yellow SC mottled w/ 7.5YT 5/8 strong brown SC					Negative
	9	0-14	10YR 2/2/ very dark brown CL	14-28	7.5YR 5/6 yellowish brown C							Negative
	10	0-19	10YR 2/2/ very dark brown CL	19-30	7.5YR 5/6 yellowish brown C							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	11	0-27	10YR 2/2 very dark brown SC	27-50	10YR 6/2 light brownish yellow SC mottled w/ 7.5YT 5/8 strong brown SC							Negative
	12	0-33	10Y/R 6/8 brownish yellow S	33-48	10YR 6/6 brownish yellow S							Negative
	13	0-14	10YR 6/8 brownish yellow COS	14-41	10YR 2/2 very dark brown COS	41-50	10YR 6/2 light brownish yellow SC mottled w/ 7.5YT 5/8 strong brown SC					Negative
31WA1989	1	0-30	10YR 4/3 brown SL	30-60	10YR 6/6 brownish yellow SCL	60-65	10YR 5/8 yellowish brown SCL					Negative
	2	0-26	10YR 4/2 dark grayish brown SL	26-41	10YR 6/4 light yellowish brown SL	41-64	10YR 6/6 brownish yellow SCL					Negative
31WA1990	1	0-15	10YR 4/4 dark yellowish brown SL	15-25	5YR 5/8 yellowish red SC							Positive
	2	0-10	10YR 4/4 dark yellowish brown SL	10-25	10YR 6/6 brownish yellow SCL							Negative
	3	0-10	10YR 5/8 yellowish brown SCL									Negative
	4	0-18	10YR 4/4 dark yellowish brown SL	18-28	5YR 5/8 yellowish red SC							Negative
	5	0-23	10YR 4/4 dark yellowish brown SL	23-33	5YR 5/8 yellowish red SC							Negative
	6	0-17	10YR 4/6 dark yellowish brown SCL	17-27	5YR 5/8 yellowish red SC							Negative
	7	0-20	10YR 4/4 dark yellowish brown SL	20-30	5YR 5/8 yellowish red SC							Negative
	8	0-5	10YR 3/2 very dark grayish brown SL	5-30	10YR 5/6 yellowish brown SCL	30-42	7.5YR 5/6 strong brown SC					Negative
	9	0-10	7.5YR 6/8 reddish yellow C									Negative
31WA1991&1 991**	1	0-27	10YR 5/3 brown SL	27-49	10YR 7/6 yellow SCL	49-60	10YR 6/8 brownish yellow Sc					Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	2	0-20	10YR 5/3 brown SL	20-60	10YR 7/6 yellow S	60-77	10YR 6/8 brownish yellow SCL					Positive
	3	0-22	10YR 4/6 dark yellowish brown SL	22-50	10YR 7/8 yellow S							Positive
	14	0-23	10YR 5/3 brown SL	23-46	10YR 6/6 brownish yellow SL	46-61	7.5YR 6/6 reddish yellow SC					Negative
	17	0-21	10YR 4/3 brown S	21-29	10YR brown 4/3 S mottled w/ 10YR 6/6 brownish yellow S and 10YR 6/8 brownish yellow S	29-39	10YR 6/8 brownish yellow C					Negative
	18	0-19	10YR 4/3 brown S	19-30	10YR brown 4/3 S mottled w/ 10YR 6/6 brownish yellow	30-38	10YR 6/8 brownish yellow C					Negative
	19	0-38	10YR 4/3 brown S	38-48	10YR 6/8 brownish yellow CL							Negative
	21	0-23	2.5YR 4/4 reddish brown SL	23-40	2.5YR 6/6 light red SCL							Negative
	22	0-30	10YR 5/3 brown S	30-60	10YR 5/6 yellow brown SCL mottled w/ 10YR 7/3 very pale brown S							Negative
	23	0-27	10YR 4/3 brown SL	27-37	10YR 6/8 brownish yellow SC							Negative
	24	0-30	10YR 4/3 brown SL	30-40	10YR 6/8 brownish yellow SC							Negative
	25	0-30	10YR 4/3 brown SL	30-45	10YR 6/6 brownish yellow SL	45-55	10YR 6/8 brownish yellow SCL					Negative
	26	0-33	10YR 4/3 brown SL	33-43	10YR 6/8 brownish yellow SC							Negative
	27	0-26	10YR 4/3 brown SL	26-44	10YR 6/8 brownish yellow SC							Negative
	28	0-25	10YR 4/3 brown SL	25-33	10YR 6/6 brownish yellow SL	33-43	10YR 6/8 brownish yellow SC					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	29	0-35	10YR 4/3 brown SL	35-45	10YR 6/8 brownish yellow SC							Negative
	35	0-20	10YR 6/4 light yellowish brown SL	20-38	2.5YR 6/6 light red SCL							Negative
	36	0-20	10YR 6/3 pale brown SL	20-30	10YR 7/6 yellow S							Negative
	37	0-20	2.5YR 7/6 light red SC	20-30	2.5YR 6/6 light red SCL							Negative
	38	0-26	10YR 5/4 yellowish brown S	26-40	10YR 6/4 light yellowish brown SL							Negative
31WA1992	1	0-30	10YR 5/6 yellowish brown SL	30-40	10YR 6/8 brownish yellow SC w/ gravel							Negative
31WA1993**	1	0-16	10YR 4/3 brown SL	16-26	10YR 4/3 brown S mottled w/ 10YR 6/6 brownish yellow S	26-37	10YR 6/8 brownish yellow C					Negative
31WA1994	1	0-27	10YR 4/3 brown SL	27-40	10YR 5/4 yellowish brown S							Negative
	2	0-35	10YR 4/3 brown SL	35-50	10YR 6/4 light yellowish brown SL	50-66	10YR 5/8 yellowish brown SIC					Negative
	3	0-23	10YR 5/2 grayish brown SIL	23-70	10YR 5/6 yellowish brown SL	70-89	10YR 5/8 yellowish brown SC					Positive
31WA1996	1	0-32	10YR 5/4 yellowish brown SL	32-42	10YR 6/8 brownish yellow S							Positive
	2	0-30	10YR 5/4 yellowish brown SL	30-40	10YR 6/8 brownish yellow SC							Negative
	3	0-28	10YR 5/4 yellow brown SL	28-39	10YR 6/8 brownish yellow SC							Negative
	4	0-12	10YR 4/2 dark grayish brown SIL	12-25	10YR 5/4 yellowish brown SL	25-35	10YR 5/8 yellowish brown SCL					Negative
	5	0-29	10YR 5/4 yellowish brown SL	29-39	10YR 6/8 brownish yellow SC							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	6	0-25	10YR 5/4 yellowish brown SL	25-52	10YR 6/6 brownish yellow SL							Negative
	7	0-24	10YR 4/3 brown SL	24-43	10YR 6/6 brownish yellow SL	43-53	5YR 5/8 yellowish red SC					Negative
	8	0-20	10YR 5/4 yellowish brown SL	20-30	10YR 6/6 brownish yellow SL	30-40	5YR 5/8 yellowish red SC					Negative
	9	0-8	10YR 5/2 grayish brown SIL	8-29	10YR 5/6 yellowish brown SL	29-39	5YR 5/8 yellowish red SC					Negative
	10	0-25	10YR 5/2 grayish brown SIL	25-35	10YR 5/4 yellowish brown SL mottled w/ 5YR 5/8							Negative
31WA1997&1 997**	J-1	0-26	10YR 5/4 brown COS	26-85	10YR 6/6 brownish yellow COS	85-95	7.5YR 7/8 reddish yellow SC					Positive
	J-2	0-26	10YR 5/3 brown COS	26-68	10YR 7/6 yellow COS	68-79	10YR 6/8 brownish yellow SC					Positive
	J-3	0-25	10YR 5/3 brown COS	25-48	10YR 7/6 yellow COS	48-60	10YR 6/8 brownish yellow SC					Positive
	2	0-35	10YR 5/4 yellowish brown SL	35-100	2.5Y 7/6 yellow S							Positive
	6	0-30	10YR 5/4 yellowish brown SL	30-100	2.5Y 7/6 yellow S							Positive
	7	0-13	10YR 3/4 dark yellowish brown LS	13-36	2.5Y 7/4 pale yellow S mottled w/ 10YR 6/8 brownish yellow SC							Negative
	8	0-36	10YR 5/4 yellowish brown SL	36-100	2.5Y 7/6 yellow S							Negative
	10	0-17	10YR 4/2 dark grayish brown COS	17-55	10YR 6/8 brownish yellow S w/ gravel	55-65	10YR 6/6 brownish yellow S w/gravel					Negative
	12	0-17	10YR 4/2 dark grayish brown COS	17-29	10YR 6/8 brownish yellow S w/ gravel	29-100	10YR 6/6 brownish yellow S w/gravel					Negative
	15	0-17	10YR 4/3 brown LS	17-28	10YR 5/6 yellowish brown COS	28-100	2.5Y 7/4 pale yellow COS					Negative
	21	0-30	10YR 4/3 brown SIL	30-100	2.5Y 7/4 pale yellow COS							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ <u>Texture/Color)</u>	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	22	0-18	10YR 4/3 brown LS	18-31	10YR 5/6 yellowish brown LS	31-100	2.5Y 7/4 pale yellow S					Positive
	25	0-30	10YR 4/4 dark yellowish brown SL	30-92	2.5Y7/4 pale yellow S	92-100	7.5YR 6/8 reddish yellow SC					Negative
	25	0-17	10YR 4/3 brown COS	17-89	2.5Y7/4 pale yellow S	89-107	2.5Y 8/4 pale yellow S					Positive
	26	0-35	10YR 4/3 brown COS	35-100	2.5Y7/4 pale yellow S							Positive
	27	0-15	10YR 4/2 dark grayish brown SIL	15-20	10YR 5/6 yellowish brown S	20-87	10YR 7/4 very pale brown S	87-92	10YR 6/6 brownsih yellow SC			Negative
	31	0-32	10YR 4/4 dark yellowish brown SL	32-90	2.5Y7/4 pale yellow S	90-100	7.5YR 6/8 reddish yellow SC					Positive
	34	0-20	10YR 4/2 dark grayish brown SIL	20-37	10YR 5/6 yellowish brown S	37-97	10YR 7/4 very pale brown S	97-110	10YR 6/6 brownsih yellow SC			Positive
	36	0-10	10YR 4/2 dark grayish brown SIL	10-20	10YR 5/6 yellowish brown S	20-90	10YR 7/4 very pale brown S	90-103	10YR 6/6 brownsih yellow SC			Positive
	37	0-46	10YR 4/2 dark grayish brown SIL	46-105	10YR 7/4 very pale brown S	105-110	10YR 6/6 brownsih yellow SC					Positive
31WA1998	1	0-27	10YR 4/3 brown COS	27-51	10YR 7/3 very pale brown COS	51-62	10YR 6/6 brownish yellow SC mottled w/ 7.5YR 5/8 strong brown SC					Positive
	6	0-26	10YR 5/4 yellowsih brown SIL	26-54	10YR 6/6 brownish yellow SICL	54-68	7.5YR 6/8 reddish yellow SC					Negative
	7	0-26	10YR 5/4 yellowsih brown SIL	26-56	10YR 6/6 brownish yellow SICL	56-70	7.5YR 6/8 reddish yellow SC					Negative
	8	0-25	10YR 5/4 yellowsih brown SIL	25-58	10YR 6/6 brownish yellow SICL	58-70	7.5YR 6/8 reddish yellow SC					Negative
	9	0-30	10YR 5/4 yellowsih brown SIL	30-60	10YR 6/6 brownish yellow SICL	60-70	7.5YR 6/8 reddish yellow SC					Negative
31WA1999	1	0-30	10YR 3/3 dark brown SIL	30-54	10YR 5/4 yellow brown SIL	54-68	7.5YR 6/8 reddish yellow SC					Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	one 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil_ <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil <u>Texture/Color)</u>	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	2	0-20	10YR 4/3 brown SIL	20-55	10YR 3/2 very dark grayish brown SICL	55-73	10YR 7/1 light gray SICL mottled 10YR 4/2 dark grayish brown SICL					Negative
	3	0-31	2.5Y 5/4 light olive brown COS mottled w/ 2.5Y 6/4 light yellow brown COS	31-41	10YR 5/6 yellow brown SC, very compact w/ oxidation							Negative
	4	0-28	2.5Y 5/4 light olive brown COS	28-35	10YR 2/1 black LS	35-39	2.5Y 5/6 light olive brown SIL	39-97	2.5Y 6/6 olive yellow S	97-100	2.5Y 6/6 olive yellow S mottled w/ 7.5YR 5/8 strong brown SC	Negative
	5	0-19	10YR 5/4 yellowish brown SIL	19-27	10YR 4/3 brown SIL	27-37	7.5YR 6/8 reddish yellow SICL					Negative
	6	0-47	10YR 5/4 yellowish brown SIL	47-50	10YR 6/3 pale brown SIL	50-63	10YR 3/2 very dark grayish brown SICL					Negative
	7	0-11	2.5Y 5/2 grayish brown SIL mottled w/ 10YR 5/4 yellow brown SIL -fill	11-41	10YR 4/3 brown SIL	41-57	10YR 2/1 black LS mottled w/ 2.5Y 6/2 light brownish gray SL	57-95	2.5Y 6/2 light brownish gray S	95-100	2.5Y 6/2 light brownish gray SC mottled w/ 7.5 5/8 strong brown SC	Negative
	8	0-20	10YR 3/3 dark brown SIL	20-80	10YR 5/4 yellow brown SIL	80-90	7.5YR 6/8 reddish yellow SICL					Negative
31WA2000	1	0-22	10YR 5/4 yellowish brown LS	22-37	10YR 7/4 very pale brown S	37-48	10YR 5/6 yellowish brown SC					Positive
	2	0-27	10YR 5/4 yellowish brown LS	27-43	10YR 7/4 very pale brown S							Negative
	3	0-31	10YR 5/4 yellowish brown LS	31-67	10YR 7/4 very pale brown S	67-77	10YR 5/6 yellowish brown SC					Negative
	4	0-39	10YR 5/4 yellowish brown LS	39-60	10YR 7/4 very pale brown S	60-70	10YR 5/6 yellowish brown SC					Positive
	5	0-26	10YR 4/3 brown SL	26-68	10YR 5/4 yellowish brown S	68-78	10YR 6/8 brownish yellow SC					Positive
	6	0-30	10YR 4/3 brown SL	30-54	10YR 5/4 yellowish brown S	54-73	10YR 6/8 brownish yellow SC					Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	9	0-21	10YR 5/4 LS	21-35	10YR 7/4 very pale brown LS	35-47	7.5YR 5/6 strong brown SC					Negative
	10	0-30	10YR 4/3 brown SL	30-65	10YR 5/4 yellowish brown S	65-80	10YR 6/8 brownish yellow SC					Negative
	11	0-32	10YR 4/3 brown SL	32-59	10YR 5/4 yellowish brown S	59-67	10YR 6/8 brownish yellow SC					Negative
	13	0-25	10YR 4/3 brown SL	25-62	10YR 5/4 yellowish brown S	62-75	10YR 6/8 brownish yellow SC					Negative
	15	0-18	10YR 5/4 yellowish brown SL	18-24	10YR 6/4 light yellowish brown S	24-34	7.5YR 6/8 reddish yellow SC					Positive
	16	0-20	10YR 4/3 brown SL	25-62	10YR 5/4 yellowish brown S -wet	62-75	10YR 6/8 brownish yellow SC -wet					Negative
	17	0-22	10YR 4/3 brown S mottled w/ 10YR 5/4 yellowish brown S -oxidated	22-36	10YR 6/8 brownish yellow C							Negative
	21	0-23	10YR 5/4 yellowish brown SL	23-46	10YR 6/4 light yellowish brown S	46-57	7.5YR 6/8 reddish yellow SC					Positive
	22	0-38	10YR 4/3 brown SL	38-50	10YR 5/4 yellowish brown S	50-62	10YR 6/8 brownish yellow SC					Positive
	23	0-27	10YR 4/3 brown SL	27-53	10YR 5/4 yellowish brown S	53-65	10YR 6/8 brownish yellow SC					Negative
	24	0-16	10YR 4/3 brown SL	16-27	10YR 5/4 yellowish brown S -wet	27-37	10YR 6/8 brownish yellow SC -wet					Negative
	25	0-25	10YR 4/3 brown SL	25-62	10YR 5/4 yellowish brown S -wet	62-75	10YR 6/8 brownish yellow SC -wet					Negative
31WA2001	1	0-20	10YR 4/4 dark yellowish brown LS	20-34	2.5Y 6/4 light yellowish brown COS	34-45	7.5YR 5/6 strong brown SC					Positive
	2	0-20	10YR 4/4 dark yellowish brown LS	20-27	2.5Y 6/4 light yellowish brown COS	27-40	10YR 5/6 yellowish brown SC					Negative
	3	0-22	10YR 4/4 dark yellowish brown LS	22-28	2.5Y 6/4 light yellowish brown COS	28-38	7.5YR 5/6 strong brown SC					Negative
	6	0-31	2.5Y light olive brown COS	31-49	2.5Y 6/4 light yellowish brown COS	49-60	7.5YR 5/6 strong brown SC					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil	<u>Zo</u>	ne 4 (Depth and Soil	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
31WA2002	1	0-17	10YR 6/4 light yellowish brown LS	17-27	7.5YR 6/8 reddish yellow SC							Positive
	3	0-16	10YR 6/4 light yellowish brown SL	16-27	7.5YR 6/8 reddish yellow SC							Negative
	4	0-27	10YR 6/4 light yellowish brown SL	27-37	7.5YR 6/8 reddish yellow SC							Negative
	5	0-18	10YR 6/4 light yellowish brown SL	18-34	7.5YR 6/8 reddish yellow SC							Negative
	7	0-16	10YR 6/4 light yellowish brown LS	16-19	10YR 7/4 very pale brown S	19-29	10YR 6/8 brownish yellow SC					Negative
	8	0-32	10YR 4/4 dark yellowish brown LS	32-47	10YR 7/4 very pale brown S	47-58	10YR 6/8 brownish yellow SC					Negative
31WA2003	1	0-22	10YR 4/3 brown SL	22-82	10YR 5/6 yellowish brown SL	82-95	10YR 5/8 yellowish brown SC					Positive
	3	0-28	10YR 4/3 brown SL	28-91	10YR 5/6 yellowish brown SL	91-100	10YR 5/8 yellowish brown SC					Negative
	4	0-23	10YR 5/4 yellowish brown LS	23-36	10YR 6/6 brownish yellow LS							Negative
31WA2004	1	0-48	10YR 5/4 yellowish brown LS	48-57	7.5YR 6/8 reddish yellow SC							Positive
	5	0-49	10YR 7/4 very pale brown LS	49-73	10YR 5/4 yellowish brown LS	73-85	10YR 7/4 very pale brown S	85-95	10YR 6/8 brownish yellow SC			Positive
	6	0-10	10YR 4/3 brown SL	10-38	10YR 5/4 yellowish brown S	38-52	10YR 5/8 yellowish brown SC					Negative
	7	0-35	10YR 7/4 very pale brown S mottled w/ 10YR 5/6 yellow brown S	35-55	10YR 5/8 yellowish brown SC							Negative
	8	0-5	10YR 4/3 brown SL	5-35	10YR 7/4 very pale brown S	35-50	10YR 5/8 yellowish brown SC -wet					Negative
	10	0-45	10YR 7/4 very pale brown S	45-67	10YR 5/4 yellowish brown S	67-80	10YR 5/8 yellowish brown SC -wet					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	12	0-45	10YR 7/4 very pale brown S		10YR 6/4 light yellowish brown S -wet							Negative
	13	0-48	10YR 7/4 very pale brown LS	48-72	10YR 5/4 yellowish brown LS	72-90	10YR 7/4 very pale brown S					Negative
	14	0-27	10YR 7/4 very pale brown LS	27-44	10YR 5/4 yellowish brown LS mottled w/ 5YR 8/4 pale yellow LS and 10YR 7/4 very pale brown LS	44-54	10YR 3/4 dark yellowish brown SC mottled w/ 5YR 8/4 pale yellow SC					Negative
31WA2005	1	0-18	10YR 5/4 yellowish brown SL	18-59	10YR 6/6 brownish yellow SL	59-69	7.5YR 6/8 reddish yellow SC					Positive
31WA2006&2 006**	1	0-23	10YR 5/3 brown SL	23-45	2.5Y 7/6 yellow SL	45-56	7.5YR 5/8 strong brown SC					Negative
	2	0-38	10YR 5/3 brown LCOS	38-77	2.5Y 7/6 yellow LCOS	77-86	7.5YR 5/8 strong brown SC					Negative
31WA2007	1	0-22	10YR 5/3 brown LCOS	22-47	2.5Y 7/6 yellow LCOS w/ gravel	47-57	7.5YR 5/8 strong brown SC w/ gravel					Positive
	2	0-20	10YR 5/3 brown LCOS	20-31	2.5Y 7/6 yellow LCOS w/ gravel							Negative
	3	0-10	10YR 5/3 brown LS	10-55	10YR 5/6 yellow brown S mottled w/ 10YR 7/4 very pale brown S	55-65	10YR 5/8 yellow brown SC -wet					Negative
	4	0-42	10YR 5/3 brown LCOS	42-60	2.5Y 7/6 yellow LCOS w/ gravel	60+	rock impasse					Negative
	5	0-29	10YR 5/4 yellowish brown SL	29-37	10YR 7/4 very pale brown S	37-47	10YR 6/8 brownish yellow SC					Negative
	6	0-23	10YR 3/3 dark brown SL	23-100	10YR 5/6 yellowish brown COSL							Negative
	7	0-28	10YR 5/3 brown LCOS	28-80	2.5Y 7/6 yellowish LCOS	80-90	7.5YR 5/8 strong brown SC					Negative
<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil <u>Texture/Color)</u>	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
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	8	0-28	10YR 5/3 brown LCOS	27-34	2.5Y 7/6 yellow SC mottled w/ 7.5YR 5/8 strong brown SC	34+	root impasse					Negative
	9	0-28	10YR 4/4 dark yellowish brown LCOS	28-35	10YR 6/4 light yellowish brown S	35-40	10YR 5/6 yellowish brown SC					Positive
	11	0-26	10YR 4/4 dark yellowish brown S	26-37	10YR 5/4 yellowish brown SC							Negative
	12	0-15	10YR 4/4 dark yellowish brown LCOS	15-45	10YR 6/4 light yellowish brown S w/ gravel	45-50	10YR 5/4 yellowish brown C w/ gravel					Negative
	13	0-23	10YR 3/3 dark brown SL	23-100	10YR 5/6 yellowish brown COSL							Negative
	14	0-35	10YR 4/4 dark yellowish brown LCOS	35-60	10YR 7/4 very pale brown S	60-65	10YR 5/6 yellowish brown SC					Negative
31WA2008&2 008**	1	0-35	10YR 5/4 yellowish brown S	35-55	10YR 6/6 brownish yellow S	55-65	10YR 5/8 yellowish brown SC					Positive
	2	0-33	10YR 5/4 yellowish brown S	33-51	10YR 6/6 brownish yellow S	51-62	10YR 5/8 yellowish brown SC					Positive
	3	0-25	10YR 5/4 yellowish brown S	25-40	10YR 6/6 brownish yellow S	40-54	10YR 5/8 yellowish brown SC					Negative
	4	0-16	10YR 5/4 yellowish brown S	16-41	10YR 6/6 brownish yellow S	51-51	10YR 5/8 yellowish brown SC					Negative
	5	0-15	10YR 5/4 yellowish brown S	15-45	10YR 6/6 brownish yellow S	45-55	10YR 5/8 yellowish brown SC					Negative
	6	0-34	10YR 5/4 yellowish brown S	34-60	10YR 6/6 brownish yellow S	60-64	10YR 5/8 yellowish brown SC					Negative
	7	0-25	10YR 5/4 yellowish brown SL	25-35	10YR 6/6 brownish yellow SL							Negative
	8	0-25	10YR 5/4 yellowish brown S	25-35	10YR 6/6 brownish yellow S	35-45	10YR 5/8 yellowish brown SC					Negative
	9	0-28	10YR 5/4 yellowish brown S	28-37	10YR 6/6 brownish yellow S	37-47	10YR 5/8 yellowish brown SC					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	10	0-33	10YR 5/4 yellowish brown S	33-57	10YR 6/6 brownish yellow S	57-67	10YR 5/8 yellowish brown SC					Negative
	11	0-15	10YR 5/4 yellowish brown S	15-46	10YR 6/6 brownish yellow S	46-56	10YR 5/8 yellowish brown SC					Negative
	12	0-32	10YR 5/4 yellowish brown S	32-66	10YR 6/6 brownish yellow S	66-76	10YR 5/8 yellowish brown SC					Negative
	13	0-23	10YR 5/4 yellowish brown S	23-41	10YR 6/6 brownish yellow S	41-52	10YR 5/8 yellowish brown SC					Negative
	16	0-36	10YR 5/4 yellowish brown S	36-45	2.5Y 5/4 reddish brown S	45-56	10YR 5/8 yellowish brown SC					Negative
	17	0-15	10YR 5/4 yellowish brown S	15-31	2.5Y 5/4 reddish brown S	31-35	10YR 6/6 brownish yellowish S	35-45	10YR 5/8 yellowish brown SC			Negative
	18	0-34	10YR 5/4 yellowish brown S	34-62	10YR 6/6 brownish yellow S	62-72	10YR 5/8 yellowish brown SC					Negative
	19	0-25	10YR 5/4 yellowish brown S	25-27	10YR 6/6 brownish yellow S	27-39	10YR 5/8 yellowish brown SC					Negative
	20	0-22	10YR 5/4 yellowish brown S	22-33	10YR 6/6 brownish yellow S	33-43	10YR 5/8 yellowish brown SC					Negative
	21	0-13	10YR 5/4 yellowish brown S	13-43	10YR 6/6 brownish yellow S	43-53	10YR 5/8 yellowish brown SC					Negative
	22	0-14	10YR 5/4 yellowish brown S	14-50	10YR 6/6 brownish yellow S	50-55	10YR 5/8 yellowish brown SC					Negative
31WA2009	1	0-16	10YR 6/4 light yellowish brown SL	16-37	10YR 6/2 light brownish gray SL	37-58	10YR 7/2 light gray SC					Positive
	2	0-30	10YR 6/4 light yellowish brown SL	30-42	10YR 7/2 light gray SCL							Negative
	3	0-10	10YR 6/4 light yellowish brown LS	10-30	10YR 7/2 light gray SCL							Negative
	4	0-25	10YR 5/4 yellowish brown LS	25-44	10YR 6/8 brownish yellow SL							Negative
	5	0-30	10YR 6/4 light yellowish brown LS	30-67	10YR 7/2 light gray SCL							Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	6	0-28	10YR 6/4 light yellowish brown SL	28-38	10YR 7/2 light gray S							Negative
	7	0-22	10YR 6/4 light yellowish brown SL	22-48	10YR 6/2 light brownish gray SL	48-57	10YR 6/8 brownish yellow SL					Positive
	8	0-22	10YR 6/4 light yellowish brown SL	22-37	10YR 6/2 light brownish gray SL	37-42	10YR 6/8 brownish yellow SL					Negative
	9	0-12	10YR 4/3 brown SIL	12-34	10YR 6/6 brownish yellow S							Negative
	10	0-24	10YR 6/4 light yellowish brown SL	24-31	10YR 6/2 light brownish gray SL	31-36	10YR 6/8 brownish yellow SL					Negative
	11	0-34	10YR 6/4 light yellowish brown SL	34-43	10YR 7/2 light gray S							Negative
	12	0-19	10YR 5/4 yellowish brown S	19-36	10YR 6/3 pale brown SL	36-51	10YR 6/4 light yellow brown SL	51-57	10YR 5/8 yellowish brown SC			Negative
	13	0-24	10YR 6/4 light yellowish brown SL	24-36	2.5YR red 5/8 SCL							Negative
	14	0-11	10YR 6/4 light yellowish brown SL	11-25	10YR 6/2 light brownish gray SL	25-35	10YR 6/8 brownish yellow SL					Negative
	15	0-30	10YR 6/4 light yellowish brown SL	30-39	10YR 6/2 light brownish gray SL							Negative
	16	0-30	10YR 4/3 brown SIL	30-59	10YR 6/6 brownish yellow S							Negative
	17	0-15	10YR 4/3 brown SIL	15-65	10YR 6/6 brownish yellow S							Negative
	18	0-24	10YR 5/4 yellowish brown S	24-45	10YR 6/2 light brownish gray SL	45-52	10YR 6/2 light brownish gray SC mottled w/ 10YR 5/8 yellow brown SC					Positive
	19	0-29	10YR 5/4 yellowish brown S	29-45	10YR 6/2 light brownish gray SC mottled w/ 10YR 6/8 brownish yellow SC							Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	20	0-36	10YR 5/4 yellowish brown S	36-45	10YR 6/2 light brownish gray SL	45-52	10YR 6/2 light brownish gray SC mottled w/ 10YR 6/8 brownish yellow SC					Negative
31WA2010	1	1-17	10YR 6/4 light yellowish brown SL	17-33	10YR 5/6 yellowish brown SIL	33-36	10YR 6/6 brownish yellow S	36-41	7.5YR 6/8 reddish yellow SC			Positive
	2	0-30	10YR 5/6 yellowish brown SIL	30-45	10YR 6/6 brownish yellow S							Negative
	3	0-36	10YR 5/6 yellowish brown SIL	36-47	10YR 6/6 brownish yellow S	47-57	7.5YR 6/8 reddish yellow SC					Negative
	4	0-24	10YR 5/4 yellowish brown S	24-37	10YR 6/4 light yellowish brown SL	37-50	10YR 6/2 light brownish gray SL					Negative
	5	0-10	10YR 5/6 yellowish brown SIL	10-50	10YR 6/6 brownish yellow S	50-65	7.5YR 6/8 reddish yellow SC					Negative
	6	0-23	10YR 5/3 brown SIL	23-40	10YR 6/4 light yellowish brown SL							Negative
	7	0-21	10YR 5/6 yellowish brown SIL	21-32	10YR 6/6 brownish yellow S	32-41	7.5YR 6/8 reddish yellow SC					Negative
	8	0-35	10YR 5/6 yellowish brown SIL	35-45	10YR 6/6 brownish yellow S	45-55	7.5YR 6/8 reddish yellow SC					Negative
	9	0-35	10YR 5/4 yellowish brown S	35-45	10YR 4/6 dark yellowish brown SCL	45-50	10YR 5/8 yellowish brown SIC					Negative
31WA1186&1 186**	1	0-29	10YR 5/4 yellowish brown SL	29-43	10YR 8/4 very pale brown S	43-53	10YR 6/8 brownish yellow SL					Positive
31WA2011	1	0-24	2.5Y 5/4 light olive brown LS	24-40	10YR 6/4 light yellowish brown S	40-59	10YR 5/6 yellowish brown SC -filling w/ water					Positive
31WA2012	1	0-10	10YR 5/4 yellowish brown SL	10-30	10YR 6/4 light yellowish brown SL							Positive
	2	0-5	10YR 5/4 yellowish brown SL	5-21	10YR 6/4 light yellowish brown SL	21-33	10YR 6/3 pale brown SL	33-72	10YR 5/3 brown S			Negative
	3	0-14	10YR 4/4 dark yellowish brown SICL	14-30	10YR 5/6 yellowish brown SIL							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	4	0-3	10YR 3/2 very dark grayish brown SL	3-25	10YR 6/6 brownish yellow SCL mottled w/ 10YR 3/2 very dark grayish brown SC							Negative
	5	0-12	10YR 5/4 yellowish brown SL	12-22	10YR 6/4 light yellowish brown SL	22-32	10YR 7/6 yellow SC					Positive
	6	0-19	10YR 4/4 dark yellowish brown SICL	19-26	10YR 6/3 pale brown SL	26-41	2.5YR 4/4 reddish brown C					Negative
	7	0-12	10YR 3/2 very dark grayish brown SL	12-54	10YR 6/4 light yellowish brown LS							Negative
	8	0-7	10YR 5/4 yellowish brown SCL	7-33	10YR 6/1 gray SCL	33-43	10YR 2/2 very dark brown CL					Negative
	9	0-19	10YR 5/4 yellowish brown SL	19-38	10YR 6/6 brownish yellow SL	38-48	7.5YR 6/6 reddish yellow SCL					Negative
	10	0-10	10YR 3/2 very dark grayish brown SL	10-30	10YR 5/6 yellowish brown SL							Negative
	11	0-12	10YR 4/3 brown SL	12-30	10YR 6/6 brownish yellow S	30-40	7.5YR 6/8 reddish yellow SC					Positive
	12	0-15	10YR 2/2 very dark brown SL	15-56	10YR 6/4 light yellowish brown S							Negative
	13	0-10	10YR 3/2 very dark grayish brown SL	10-30	10YR 6/4 light yellowish brown SL							Negative
	14	0-15	10YR 5/2 grayish brown L	15-30	10YR 6/6 brownish yellow SC							Negative
31TJ500	1	0-12	10YR 5/6 yellowish brown SIL	12-49	10YR 6/3 pale brown SICL	49-59	10YR 6/3 pale brown SICL mottled w/ 10YR 7/4 very pale brown SIC					Positive
	2	0-11	10YR 5/2 grayish brown SILC	11-21	Hydric							Negative
	3	0-12	10YR 5/2 grayish brown SIL	12-26	10YR 7/2 light gray SICL	26-36	10YR 6/6 brownish yellow SC					Negative
	4	0-13	10YR 5/2 grayish brown SIL	13-27	10 YR 7/3 very pale brown SICL	27-37	10YR 6/8 brownish yellow SC					Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Z</u> c	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	5	0-14	10YR 3/2 very dark grayish brown L	14-45	10 YR 7/3 very pale brown SL	45-55	10YR 6/8 brownish yellow SIC					Negative
	6	0-15	10YR 3/2 very dark grayish brown L	15-39	10 YR 7/3 very pale brown SL	39-49	10YR 6/6 brownish yellow SC mottled w/ 10YR 7/3 SIC					Positive
	7	0-19	10YR 3/2 very dark grayish brown L	19-46	10 YR 7/3 very pale brown SL	46-56	10YR 6/6 brownish yellow SC mottled w/ 10YR 7/3 SIC					Positive
	8	0-10	10YR 5/2 grayish brown SIL	10-23	10 YR 7/3 very pale brown SICL	23-33	10YR 6/8 brownish yellow SC					Positive
	9	0-15	10YR 4/2 SL	15-38	10YR 7/2 light gray SL wet	38-48	10YR 6/8 brownish yellow SC wet					Positive
	10	0-24	10YR 5/4 yellowish brown SL	24-53	10YR 6/3 pale brown S	53-67	10YR 5/8 yellow brown SC					Negative
	11	0-11	10YR 5/4 yellowish brown SL	11-47	10YR 6/3 pale brown S	47-60	10YR 5/8 yellow brown SC					Positive
	12	0-25	10YR 5/4 yellowish brown SL	25-40	10YR 6/3 pale brown S	40-60	10YR 5/8 yellow brown SC					Negative
	13	0-15	Hydric									Negative
	14	0-10	10YR 5/1 gray SL	10-16	10YR 4/2 dark grayish brown SIL	16-30	2.5Y 7/4 pale yellow SL					Negative
	15	0-20	10YR 5/4 yellowish brown SL	20-40	10YR 6/6 brownish yellow S	40-50	7.5YR 5/6 strong brown SC					Positive
	16	0-12	10YR 4/2 dark grayish brown SL	12-35	10 YR 7/3 very pale brown SL	35-45	10YR 6/8 brownish yellow SC					Positive
	17	0-13	10YR 3/3 dark brown COSL	13-44	7.5YR 6/4 light brown COS	44-58	7.5YR 6/6 reddish brown SC					Negative
	18	0-19	10YR 6/4 light yellowish brown LS	19-45	10YR 6/2 light brownish gray SL	45-49	7.5YR 6/6 reddish brown SC					Negative
	19	0-21	10YR 3/2 very dark grayish brown L	21-43	2.5Y 6/2 light brownish gray SIC	43-53	10YR 6/3 pale brown C					Negative
	20	0-5	10YR 4/1 dark gray SL	5-17	10YR 6/3 pale brown SL w/ A/B leaching	17-37	2.5Y 7/4 plae yellow SL					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
31WA2013	1	0-17	10YR 5/2 grayish brown SIL	17-39	10YR 6/4 light yellowish brown SL	39-49	10YR 6/8 brownish yellow SL w/ gravel					Positive
	2	0-8	2.5Y 6/2 light brownish gray SL	8-24	2.5Y 4/2 dark grayish brown SL	24-36	2.5Y 6/4 light yellow brown SL					Negative
	3	0-20	10YR 5/2 grayish brown SIL	20-30	2.5Y 7/4 pale yellow S							Negative
	4	0-19	10YR 4/2 dark grayish brown SIL	19-39	10YR 6/4 light yellowish brown SL	39-49	10YR 6/6 brownish yellow S					Negative
	5	0-5	7.5YR 2.5/2 very dark brown L	5-16	7.5YR 5/1 gray SL	16-36	10YR 6/4 light yellow brown S					Negative
	6	0-18	2.5Y 4/4 olive brown SL	18-35	2.5Y 6/4 light yellowish brown SL							Negative
	7	0-16	10YR 4/4 dark yellowish brown SICL	16-30	2.5Y 6/4 light yellowish brown SL							Negative
	8	0-35	10YR 5/4 yellowish brown SL	35-52	10YR 6/6 brownish yellow S	52-62	7.5YR 5/8 strong brown SIC					Negative
	9	0-14	10YR 4/2 dark grayish brown SIL	14-60	10 YR 7/3 very pale brown S	60-70	10YR 6/4 light yellow brown C					Negative
	10	0-24	10YR 7/4 very pale brown SL	24-52	10YR 6/6 brownish yellow S	52-62	7.5YR 5/8 strong brown SIC					Negative
31WA2018	1	0-12	10YR 5/3 brown SIL	12-37	10YR 6/6 brownish yellow SIL	37-45	10YR 6/8 brownish yellow SC					Positive
	2	0-18	10YR 5/3 brown SIL	18-30	10YR 6/6 brownish yellow SIL	30-40	10YR 6/8 brownish yellow SC					Negative
	3	0-15	10YR 4/2 dark gayish brown LCOS	15-33	2.5Y 5/4 reddish brown S	33-50	10YR 7/8 yellow SC					Negative
31WA2019	1	0-18	10YR 4/3 dark yellowish brown SL	18-36	2.5Y 7/6 light red S w/ traces of C	36-46	7.5YR 6/8 reddish yellow SC					Positive
	2	0-18	10YR 5/3 brown SIL	16-36	10YR 6/4 light yellowish brown SL	36-68	10YR 4/3 dark yellow brown SC	68-78	10YR 5/6 yellow brown SC			Negative
	3	0-50	10YR 5/3 brown SIL	50-90	10YR 7/4 very pale brown S							Positive
	4	0-26	10YR 4/3 dark yellowish brown SL	26-71	2.5Y 7/6 light red SL	71-87	7.5YR 6/8 reddish yellow SC					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Z</u> c	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	5	0-14	10YR 4/3 dark yellowish brown SL	14-47	2.5YR 6/8 light red SC							Negative
	6	0-30	10YR 4/3 dark yellowish brown SL	30-38	2.5Y 7/6 light red S	38-48	7.5YR 6/8 reddish yellow SC					Negative
	7	0-18	10YR 5/4 yellowish brown S	18-42	10YR 6/4 light yellowish brown SL	42-67	10YR 7/4 very pale brown SCL					Negative
	8	0-24	10YR 5/3 brown SIL	24-50	10YR 7/4 very pale brown S							Negative
	9	0-28	10YR 3/2 very dark grayish brown LCOS	28-100	10YR 7/4 very pale brown S							Negative
	10	0-16	10YR 4/3 dark yellowish brown LCOS	16-42	2.5Y 7/6 light red S	42-52	7.5YR 6/8 reddish yellow SC					Negative
31WA2020	1	0-20	10YR 3/2 very dark grayish brown LCOS	20-39	2.5Y 7/6 light red S	39-49	7.5YR 6/8 reddish yellow SC					Positive
	3	0-12	10YR 3/3 dark brown LCOS	12-24	10YR 5/4 yellowish brown S	24-43	10YR 4/2 dark grayish brown SC w/ gravel					Negative
	4	0-42	10YR 5/3 brown SIL	42-83	10YR 6/6 brownish yellow SC	83-92	10YR 6/4 light yellowish brown S					Negative
	5	0-30	10YR 5/3 brown SIL	30-72	10YR 6/6 brownish yellow SC	72-84	10YR 6/4 light yellowish brown S					Negative
	6	0-18	10YR 4/3 dark yellowish brown LCOS	18-28	10YR 4/2 dark grayish brown SC mottled w/ 2.5Y 8/2 very pale brown SC - hydric							Positive
	7	0-19	10YR 4/3 dark yellowish brown LCOS	19-21	10YR 6/8 brownish yellow SC mottled w/ 2.5Y 8/2 pale yellow SC -hydric							Negative
	8	0-40	10YR 5/3 brown SIL	40-52	10YR 6/4 light yellowish brown SL	52-62	10YR 5/6 yellowish brown SC					Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil <u>Texture/Color)</u>	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	9	0-30	10YR 4/3 dark yellowish brown LCOS	30-45	10YR 6/4 light yellowish brown S	45-55	10YR 7/8 yellow SC					Positive
	10	0-25	10YR 5/3 brown SIL	25-55	10YR 6/6 brownish yellow SC	55-80	10YR 6/4 light yellowish brown S	80-90	10YR 6/8 brownish yellow SC			Positive
	11	0-28	10YR 5/3 brown SIL	28-38	10YR 6/6 brownish yellow SC							Negative
	12	0-10	10YR 4/2 dark graysih brown SL	10-20	10YR 4/2 dark graysih brown SL							Negative
	13	0-11	10YR 3/3 dark brown LCOS	11-28	10YR 4/3 dark yellowish brown S	28-34	10YR 6/4 light yellowish brown S	34-58	10YR 7/3 very pale brown S			Negative
	14	0-40	10YR 4/3 dark yellowish brown S	40-52	2.5Y 4/2 dark grayish brown S							Negative
	15	0-7	10YR 4/2 dark graysih brown SL	7-17	10YR 6/4 light yellowish brown SL	17-27	10YR 4/2 dark graysih brown SL					Negative
	16	0-15	10YR 5/3 brown SIL	15-32	10YR 6/6 brownish yellow SC	32-44	10YR 6/8 brownish yellow SC					Negative
	17	0-29	10YR 5/3 brown SIL	29-39	10YR 6/8 brownish yellow SC							Negative
	18	0-12	10YR 4/3 dark yellowish brown LS	12-22	2.5Y 6/6 olive yellow	22-48	5Y 4/2 olive gray LCOS - wet	48-68	5Y 7/4 pale yellow S -wet	68-73	5Y 7/4 pale yellow S mottled w/ 7.5YR 6/8 reddish yellow S w/ gravel and traces w/ clay -wet	Negative
	19	0-20	10YR 6/6 brownish yellowish SC	20-30	10YR 6/8 brownish yellow SC							Negative
	20	0-15	10YR 5/3 brown SIL	15-31	10YR 6/6 brownish yellow SC	31-42	10YR 6/8 brownish yellow SC					Negative
31WA2021	1	0-15	10YR 6/8 brownish yellowish SC -disturbed									Positive
	2	0-20	10YR 5/3 brown SIL	20-30	10YR 6/4 light yellowish brown SL	30-40	10YR 5/6 yellowish brown SC					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	3	0-30	10YR 5/3 brown SIL	30-40	10YR 6/4 light yellowish brown SL	40-56	10YR 5/6 yellowish brown SC					Negative
	4	0-21	10YR 6/4 light yellowish brown SL	21-28	7.5YR 5/8 strong brown SC							Negative
	5	0-15	7.5YR 5/8 strong brown SC -disturbed									Negative
	6	0-38	10YR 5/3 brown SIL	38-47	10YR 6/4 light yellowish brown SL	47-59	10YR 5/6 yellowish brown SC					Negative
	7	0-10	10YR 5/3 brown S w/ traces of C	10-20	7.5YR 5/8 strong brown SC -oxidized							Negative
31WA2022	1	0-22	10YR 5/3 brown S	22-43	10YR 7/6 yellow S	43-50	7.5YR 6/8 reddish yellow SC w/ oxidation					Positive
	2	0-23	10YR 6/4 light yellowish brown SC	23-35	7.5YR 6/8 reddish yellow SC							Negative
	3	0-24	10YR 7/6 yellowish S	24-36	7.5YR 6/8 reddish yellow SC							Negative
	4	0-26	2.5Y 5/4 light olive brown S	26-33	2.5Y 6/6 olive yellow w/ traces of C	33-42	7.5YR 6/8 reddish yellow SC w/ oxidation					Negative
	6	0-20	10YR 5/3 brown S	20-45	10YR 7/6 yellow S	45-50	7.5YR 6/8 reddish yellow SC w/ oxidation					Positive
	9	0-30	10YR 5/3 brown S	30-43	10YR 7/6 yellow S	43-52	7.5YR 6/8 reddish yellow SC w/ oxidation					Negative
	11	0-25	2.5Y 5/4 light olive brown S	25-36	10YR 6/8 brownish yellow SC							Negative
	13	0-20	10YR 5/4 yellowish brown S	20-40	10YR 7/6 yellow SC mottled w/ 5YR 6/8 SC olive yellow SC							Negative
	14	0-25	10YR 5/4 yellowish brown S	25-44	10YR 7/6 yellow S	44-60	10YR 7/6 yellow SC mottled w/ 7.5YR 6/8 reddish yellow SC					Negative
31WA2023	1	0-20	2.5Y 5/4 light olive brown S	20-26	2.5Y 6/6 olive yellow S	26-27	7.5YR 5/8 strong brown S w/ oxidation	27-39	5Y 6/4 pale olive S w/ traces of clay	39-49	2.5Y 6/8 olive yellow SC	Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	2	0-34	10YR 5/6 yellowish brown S	34-45	10YR 5/6 yellow brown S mottled w/ 5YR 6/8 reddish yellow S	45-50	10YR 7/4 very pale brown SC					Positive
	3	0-30	10YR 5/3 brown SL	30-40	10YR 7/4 very pale brown SCL							Negative
	5	0-29	10YR 5/3 brown SL	29-41	2.5Y 6/6 olive yellow S w/ traces of C	41-52	10YR 6/8 brownish yellow SC					Positive
	9	0-20	10YR 5/3 brown SL	20-40	7.5YR 6/8 reddish yellow SC							Negative
	10	0-30	10YR 5/3 brown SL	30-44	7.5YR 6/8 reddish yellow SC							Negative
	11	0-15	2.5Y 6/4 light yellowish brown S	15-30	2.5Y 6/6 olive yellow SC							Negative
31WA2024	1	0-20	7.5YR 6/8 reddish yellow C									Negative
	2	0-20	7.5YR 6/8 reddish yellow C w/ overburden	20-	gravel							Negative
31WA2025	1	0-10	10YR 5/3 brown LCOS w/ gravel	10-19	10YR 4/4 dark yellowish brown LCOS w/ gravel and mottled w/ 10YR 5/8 yellowish brown LCOS	19-26	10YR 5/8 yellowish brown C					Negative
	2	0-24	10YR 5/3 brown LCOS	24-34	10YR 5/8 yellowish brown C							Negative
31WA2026	1	0-30	10YR 4/4 dark yellowish brown LCOS	30-59	2.5Y 5/4 light olive brown S	59-70	7.5YR 5/8 strong brown SC					Negative
31WA2027	1	0-35	2.5Y 5/2 grayish brown SL	35-49	2.5Y 6/4 light yellow brown S	49-60	2.5Y 6/6 olive yellow SC					Positive
	2	0-30	2.5Y 5/2 grayish brown SL	30-40	2.5Y 6/4 light yellowish brown S	40-50	2.5Y 6/6 olive yellow SC					Negative
	3	0-30	2.5Y 5/2 grayish brown SL mottled w/ 2.5Y 6/4 light yellow brown S	30-41	2.5Y 6/6 olive yellow SC							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	4	0-31	2.5Y 5/2 grayish brown S	31-47	10YR 7/6 yellow S w/ traces of C	47-57	10YR 7/8 yellow SC					Negative
	5	0-8	10YR 4/3 brown LCOS	8-30	10YR 6/4 light yellowish brown S	30-45	10YR 6/8 brownish yellow SC					Negative
	6	0-27	2.5Y 5/2 grayish brown S	27-45	10YR 7/6 yellow S w/ traces of C	45-50	10YR 7/8 yellow SC					Negative
	7	0-35	2.5Y 5/2 grayish brown S	35-42	10YR 7/6 yellow S w/ traces of C	42-52	10YR 7/8 yellow SC					Negative
	8	0-35	10YR 5/3 brown SCL	35-45	10YR 6/6 brownish yellow SC							Negative
	9	0-34	2.5Y 5/2 grayish brown S	34-50	10YR 7/6 yellow S w/ traces of C	50-55	10YR 7/8 yellow SC					Negative
	10	0-10	10YR 4/2 dark grayish brown SL	10-35	2.5Y 5/2 grayish brown LS	35-48	10YR 7/6 yellow S					Negative
31WA2028	1	0-16	10YR 6/4 light yellowish brown S	16-32	10YR 6/6 brownish yellow S							Negative
	2	0-15	10YR 4/4 dark yellowish brown SL	15-20	10YR 6/4 light yellowish brown SL	20-30	10YR 6/6 brownish yellow SC					Negative
	3	0-16	10YR 4/4 dark yellowish brown SL	16-28	10YR 6/4 light yellowish brown S	28-33	10YR 6/6 brownish yellow SC					Negative
	4	0-30	10YR 4/4 dark yellowish brown SL	30-35	10YR 6/4 light yellowish brown S	35-45	10YR 6/6 brownish yellow SC					Negative
	5	0-17	10YR 5/6 yellowish brown SL	17-26	10YR 4/6 dark yellowish brown S							Negative
	6	0-20	10YR 5/6 yellowish brown SL	20-31	10YR 4/6 dark yellowish brown S	31-47	10YR 6/8 brownish yellow SC					Negative
	7	0-16	10YR 6/4 light yellowish brown S	16-32	10YR 6/6 brownish yellow S							Negative
	8	0-16	10YR 4/4 dark yellowish brown SL	16-32	10YR 6/4 light yellowish brown S							Negative
31WA2029	1	0-30	10YR 6/4 light yellowish brown S	30-41	10YR 6/6 brownish yellow S							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
31WA2030	1	0-13	10YR 5/4 yellowish brown SL	13-23	10YR 7/4 very pale brown SL	23-28	10YR 6/8 brownish yellow SL					Negative
31WA2031	1	0-8	7.5YR 4/2 brown SL	8-21	2.5Y 5/4 reddish brown S	21-34	2.5Y 5/6 light olive brown S	34-44	7.5YR 5/8 strong brown SC mottled w/ 2.5YR 5/8 red C			Positive
	2	0-9	10YR 4/2 dark grayish brown SL	9-17	5YR 4/6 yellowish red S	17-29	7.5YR 5/8 strong brown C					Negative
	3	0-8	10YR 4/2 dark grayish brown SL	8-15	5YR 4/6 yellowish red S	15-26	7.5YR 5/8 strong brown C					Negative
	4	0-20	10YR 4/4 dark yellow brown SL	20-40	10YR 6/4 light yellowish brown S	40-50	7.5YR 5/8 strong brown C					Negative
	5	0-8	10YR 4/3 brown SL	8-19	7.5YR 5/6 strong brown SL	19-22	10YR 6/4 light yellowish brown S	22-35	7.5YR 5/8 strong brown C			Negative
	6	0-20	10YR 6/4 light yellowish brown S	20-30	10YR 6/6 brownish yellow S							Negative
	7	0-10	10YR 4/4 dark yellowish brown SL	10-30	10YR 6/4 light yellowish brown S w/ gravel							Negative
	8	0-19	10YR 4/4 dark yellowish brown SL	19-25	10YR 6/4 light yellowish brown S	25-35	10YR 6/6 brownish yellow S					Negative
	9	0-12	10YR 4/4 dark yellowish brown SL	12-27	10YR 6/6 brownish yellow S							Negative
31WA2032	1	0-29	10YR 5/3 brown SIL	29-55	10YR 6/3 pale brown SL							Negative
	2	0-26	10YR 6/4 light yellowish brown SL	26-40	10YR 7/6 yellowish S							Positive
	3	0-13	10YR 6/3 pale brown SL	13-20	10YR 6/2 light brownish gray S	20-35	10 YR 7/3 very pale brown S					Positive
	4	0-24	10YR 5/3 brown S mottled w/ 10YR 6/6 brownish yellow S	24-39	10YR 6/6 brownish yellow S mottled w/ 10YR 4/3 brown S	39-50	10YR 4/3 brown S mottled w/ 10YR 7/2 light gray S	50-54	10YR 7/2 light gray S			Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil_ <u>Texture/Color)</u>	<u>Z</u> c	one 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	5	0-25	10YR 5/6 yellowish brown SL	25-35	10YR 6/6 brownish yellow S mottled w/ 2.5YR 5/8 red C							Negative
	6	0-24	10YR 5/6 yellowish brown S	24-40	10YR 6/6 brownish yellow S							Negative
	7	0-27	10YR 6/3 pale brown S	27-49	10 YR 7/3 very pale brown S							Negative
	8	0-24	10YR 6/3 pale brown SL	24-66	10 YR 7/3 very pale brown S							Negative
	9	0-28	10YR 6/4 light yellowish brown SL	28-40	10YR 7/6 yellow S							Positive
	10	0-18	10YR 6/4 light yellowish brown SL	18-38	10YR 7/6 yellow S							Negative
	11	0-18	10YR 4/3 brown SL	18-80	10YR 6/4 light yellowish brown S							Negative
	12	0-33	10YR 6/3 pale brown S	33-48	10 YR 7/3 very pale brown S							Negative
	13	0-26	10YR 6/4 light yellowish brown SL	26-42	10YR 7/6 yellow S							Positive
	14	0-28	10YR 6/4 light yellowish brown SL	28-50	10YR 7/6 yellow S							Negative
	15	0-27	10YR 6/4 light yellowish brown SL	27-50	10YR 7/6 yellow S							Negative
	16	0-35	10YR 6/3 pale brown SL	36-60	10 YR 7/3 very pale brown S							Negative
	17	0-21	10YR 6/3 pale brown SL	21-42	10YR 7/2 light gray SCL							Negative
	18	0-29	10YR 6/4 light yellowish brown SL	29-42	10YR 7/6 yellow S							Positive
	19	0-28	10YR 6/4 light yellowish brown SL	28-42	10YR 7/6 yellow S							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	20	0-30	10YR 6/4 light yellowish brown SL	30-42	10YR 7/6 yellow S							Positive
31WA2033	1	0-14	10YR 3/3 dark brown SL	14-34	2.5Y 5/6 light olive brown S							Positive
	2	0-14	10YR 4/4 dark yellowish brown SL	14-40	10YR 6/4 light yellowish brown S	40-50	10YR 6/6 brownish yellow SC					Negative
	3	0-32	10YR 3/2 dark brown SL	32-38	2.5YR 7/6 light red SL	38-48	10YR 6/6 brownish yellow SCL					Negative
	4	0-15	10YR 3/2 dark brown SL	15-26	10YR 3/6 dark yellowish brown S	26-41	10YR 6/6 brownish yellow S					Negative
	5	0-14	10YR 4/4 dark yellowish brown SL	14-40	10YR 6/4 light yellow brown S	40-50	10YR 6/6 brownish yellow SC					Negative
31WA2034	1	0-10	10YR 4/4 dark yellowish brown SL	10-22	2.5Y 7/4 pale yellow LCOS	22-30	10YR 6/6 brownish yellow SC					Positive
	2	0-12	10YR 4/4 dark yellowish brown SL	12-30	10YR 6/6 brownish yellow SC	30-40	10YR 5/6 yellow brown SC					Negative
	3	0-22	10YR 3/3 dark brown SL	22-30	10YR 5/6 yellowish brown S	30-42	10YR 5/8 yellowish brown SC					Positive
	4	0-15	10YR 4/3 brown S	15-27	10YR 5/8 yellowish brown S mottled w/ 10YR 6/4 light yellowish brown S	27-40	2.5Y 5/2 grayish brown S	40-48	2.5Y 6/2 light brownish gray S			Negative
	5	0-10	10YR 4/4 dark yellowish brown SL	10-50	10YR 6/6 brownish yellow S	50-60	10YR 6/6 brownish yellow SC					Negative
	6	0-15	10YR 4/3 brown SL	15-64	2.5Y 6/6 olive yellow S	64-74	10YR 6/8 brownish yellow SC					Negative
	7	0-20	10YR 3/2 very dark grayish brown SL	20-35	10YR 4/3 brown COS	35-70	2.5Y 6/3 light brownish yellow COS	70-	7.5YR 5/8 strong brown COS -compact			Positive
	8	0-27	10YR 4/3 brown SL	27-40	2.5Y 6/6 olive yellow S	40-50	10YR 6/8 brownish yellow SC					Negative
	9		10YR 3/3 dark brown SL		2.5Y 5/4 light olive brown S	26-43	2.5Y 6/4 light yellowish brown S w/ traces of C	43-64	5Y 8/4 pale yellow SC mottled w/ 10YR 6/8 brownish yellow SC			Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil_ <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	10	0-10	10YR 5/4 yellowish brown S	10-25	10YR 6/8 brownish yellow S	25-40	2.5Y light brownish gray S -hydric					Negative
	11	0-24	10YR 3/3 dark brown SL	24-57	10YR 6/3 pale brown SL	57-70	10YR 6/6 brownish yellow SC					Negative
	12	0-22	10YR 5/3 brown S	22-42	10YR 7/6 yellow COS	42-77	10YR 5/4 yellowish brown S -buried A Horizon	77-90	7.5YR 5/8 strong brown SC			Positive
	13	0-10	10YR 4/3 brown SIL	10-23	10YR 5/4 yellowish brown SL	23-90	10YR 7/6 yellow SC					Positive
	14	0-18	10YR 4/3 brown SIL	18-55	10YR 6/3 pale brown SL	55-66	10YR 4/3 brown SIL					Negative
	15	0-12	10YR 4/3 brown SIL	12-47	10YR 5/4 yellowish brown SL	47-60	10YR 6/8 brownish yellow SC					Negative
	16	0-12	10YR 5/4 yellowish brown COS	12-29	10YR 6/8 brownish yellow COS	29-52	10YR 7/4 very pale brown COSC					Negative
	17	0-3	gravel and rocks									Negative
	18	0-39	2.5Y 4/2 dark grayish brown	39-45	2.5Y 6/4 light yellow brown COS	45-63	10YR 6/1 gray C w/ traces of sand					Negative
	19	0-16	10YR 4/3 brown S	16-36	10YR 6/8 brownish yellow S	36-46	10YR 7/8 yellow SC					Negative
	20	0-20	10YR 6/8 brownish yellow SC -disturbed									Negative
31WA2035 (31WA4)	1	0-20	10YR 4/3 brown LS	20-43	2.5Y 6/4 light yellowish brown S	43-53	10YR 6/8 brownish yellow S w/ traces of C mottled w/ 2.5Y 6/4 light yellow brown S					Positive
	2	0-10	10YR 4/3 brown SL	10-30	10YR 6/6 brownish yellow S	30-45	10YR 6/8 brownish yellow SC					Negative
	3	0-15	2.5Y 6/4 light yellow brown S w/ traces of C	15-25	7.5YR 6/8 strong brown C							Negative
	4	0-7	10YR 3/2 very dark grayish brown SIL	7-12	2.6Y 6/4 light yellowish brown S	12-22	7.5YR 6/8 strong brown C					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	5	0-15	10YR 4/3 brown SL	15-18	10YR 5/3 brown SL	18-20	7.5YR 6/8 strong brown SC					Negative
	6	0-10	10YR 4/3 brown SL	10-13	10YR 5/6 yellowish brown S	13-28	7.5YR 6/8 strong brown SC					Negative
	7	0-10	10YR 4/3 brown LCOS	10-18	10YR 5/6 yellowish brown S	18-35	7.5YR 6/8 strong brown SC					Negative
	8	0-7	10YR 4/3 brown SL	7-50	10YR 5/4 yellowish brown SCL	50-60	5Y 7/4 pale yellow S					Negative
	9	0-21	10YR 4/3 brown LCOS	21-30	10YR 5/6 yellowish brown S	30-40	7.5YR 5/6 strong brown SC					Negative
31WA2036	1	0-19	10YR 4/2 dark grayish brown LCOS	19-37	10YR 4/3 brown LCOS	37-53	10YR 4/1 dark gray S	53-80	10YR 5/1 gray S			Positive
	2	0-13	2.5Y 5/4 light olive brown S	13-36	2.5Y 5/6 light olive brown S	36-44	2.5YR 8/4 pale ywllow COS	44-77	2.5Y 4/4 olive brown COS	11-87	2.5Y 5/2 grayish brown COS	Negative
	3	0-12	10YR 5/3 brown SIL	12-22	10YR 6/4 light yellowish brown SL	22-32	10YR 6/8 brownish yellow SC					Negative
	4	0-15	10YR 5/3 brown SIL	15-25	10YR 6/4 light yellowish brown SL	25-35	10YR 6/8 brownish yellow SC					Negative
	5	0-20	10YR 3/3 dark brown SL	20-44	10YR 6/8 brownish yellow SL	44-60	7.5YR 6/8 strong brown SC					Negative
	6	0-13	10YR 5/3 brown SIL	13-23	10YR 6/4 light yellow brown SL mottled w/ 10YR 6/8 brownish yellow -hydric							Negative
	7	0-15	10YR 4/3 brown SL	15-29	7.5YR 6/8 strong brown SC							Negative
	8	0-10	10YR 3/3 dark brown SIL	10-20	10YR 6/8 brownish yellow SL	20-35	7.5YR 6/8 strong brown SC					Negative
	9	0-9	10YR 4/2 dark grayish brown LCOS	9-40	10YR 4/3 brown LCOS mottled w/ 10Y/R 6/4 light yellow brown S	40-60	10YR 6/2 light brownish gray S					Negative
31WA2037 (31WA4)	1	0-7	10YR 4/2 dark grayish brown LCOS	7-64	10YR 7/6 yellow S w/ traces of C							Positive
	3	0-29	10YR 4/3 brown SIL	29-38	2.5Y 5/6 light olive brown S	38-48	10YR 5/6 yellow brown SC					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	4	0-9	10YR 4/2 dark grayish brown LCOS	9-25	10YR 6/4 light yellowish brown S	25-70	10YR 7/4 very pale brown S					Negative
	5	0-25	10YR 4/2 dark grayish brown LCOS	25-50	10YR 6/4 light yellowish brown S	50-65	10YR 7/4 very pale brown S					Negative
	6	9-45	10YR 4/2 dark grayish brown S	9-45	10YR 6/8 brownish yellow SC							Negative
	7	0-15	10YR 4/2 dark grayish brown S	15-25	10YR 6/8 brownish yellow SC							Negative
31WA2038 (31WA4)	1	0-5	10YR 4/2 dark grayish brown COSL	5-18	10YR 6/6 brownish yellow COSL	18-28	7.5 6/8 reddish yellow SC					Positive
	2	0-20	10YR 4/2 dark grayish brown COSL	20-50	10YR 6/6 brownish yellow COSL	50-60	7.5 6/8 reddish yellow SC					Negative
	3	0-15	10YR 5/3 brown COSL	15-44	10Y/R 6/6 brownish yellow S	44-54	10YR 6/8 brownish yellow SC					Negative
	5	0-5	10YR 4/3 brown COSL	5-33	10Y/R 5/6 yellowish brown S	33-45	10Y/R 6/6 brownish yellow S	45-50	7.5 6/8 reddish yellow SC			Negative
	6	0-8	10YR 4/3 brown COSL	8-26	10Y/R 5/6 yellowish brown S	26-35	10Y/R 6/6 brownish yellow S					Negative
	7	0-8	10YR 4/3 brown COSL	8-30	10Y/R 5/6 yellowish brown S	30-35	10Y/R 6/6 brownish yellow S					Negative
	8	0-6	10Y/R 4/4/ dark yellow brown SIL	6-35	2.5Y 6/6 olive yellow S mottled w/ 7.5YR 5/8 strong brown C w/ oxidation (possibly redeposited soils)	35-56	2.5Y 6/4 light yellowish brown S w/ gravel and oxidation -buried Zone 2	56-66	7.5YR 5/8 strong brown C			Positive
	9	0-27	10YR 4/3 brown SL	27-51	2.5Y 6/6 olive yellow S	51-61	7.5YR 5/8 strong brown SC					Positive
	11	0-12	10YR 4/6 dark yellowish brown SIL	12-34	7.5YR 5/8 strong brown S	34-44	7.5YR 5/8 strong brown SC					Negative
	12	0-19	10YR 4/2 dark grayish brown SIL	19-29	10YR 5/3 brown SIC							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil	<u>Zo</u>	ne 4 (Depth and Soil	Zon	e 5 (Depth and Soil	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	13	0-37	10YR 4/3 brown SIL	37-60	2.5Y 6/4 light yellowish brown S w/ gravel and oxidation	60-70	7.5YR 5/8 strong brown C					Negative
	14	0-40	10YR 4/3 brown SIL	40-54	2.5Y 6/6 olive yellow S	54-64	7.5YR 5/8 strong brown C					Negative
	16	0-35	10YR 4/3 brown SIL	35-54	2.5Y 6/6 olive yellow S	54-64	7.5YR 5/8 strong brown C					Negative
	17	0-5	10YR 5/3 brown SIL (possibly fill)	5-15	2.5YR 4/8 red C (possibly fill)							Negative
	18	0-11	10YR 4/2 dark grayish brown SL	11-28	10Y/R 5/6 yellowish brown S	28-34	10YR 5/8 yellowish brown SC w/ gravel and cobbles	34+	rock impasse			Negative
	19	0-25	5Y 7/4 pale yellow SIL	25-37	10YR 6/8 brownish yellow SC							Negative
31WA2039&2 039**	1	0-28	10YR 5/4 yellowish brown SL	28-40	10YR 6/6 brownish yellow S	40-55	5YR 5/8 red SC -wet					Positive
	3	0-32	10YR 5/3 brown SIL	32-80	10YR 6/4 light yellowish brown S	80-90	10YR 6/8 brownish yellow SC					Positive
	6	0-24	2.5Y 5/4 light olive brown SL	24-70	2.5Y 6/6 olive yellow S	70-80	10YR 6/8 brownish yellow SC					Positive
	7	0-35	2.5Y 5/4 light olive brown SL	35-83	2.5Y 6/6 olive yellow S	83-93	10 YR 5/8 yellowish brown SC					Positive
	9	0-23	2.5Y 5/4 light olive brown SL	23-34	2.5Y 6/6 olive yellow S	34-52	10YR 6/8 brownish yellow SC -wet					Positive
	10	0-16	10YR 5/3 brown SIL	16-60	10YR 6/4 light yellow brown S	67-70	10Y/R 5/6 yellowish brown SCL					Positive
	13	0-32	10YR 5/3 brown SL	32-83	10YR 6/4 light yellow brown S	83-97	10YR 6/8 brownish yellow SC					Positive
	14	0-30	10YR 5/3 brown SIL	30-50	2.5Y 6/4 light yellowish brown S	50-60	10Y/R 5/6 yellowish brown SCL					Positive
	23	0-35	10YR 5/3 brown SIL	35-67	10YR 6/4 light yellowish brown S	67-70	10Y/R 5/6 yellowish brown SCL w/ gravel and oxidation	70+	rock impasse			Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil	<u>Zo</u>	ne 4 (Depth and Soil_ <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	30	0-15	10YR 5/3 brown SIL - reformed A horizon	15-28	10YR 6/4 light yellowish brown S -fill layer	28-38	10YR 5/3 brown SIL - buried A horizon	38-58	10YR 6/4 light yellowish brown S	58-64	10 YR 5/8 yellowish brown SC	Positive
	33	0-26	10YR 5/3 brown SIL	26-76	2.5Y 6/4 light yellowish brown S	76-86	10Y/R 5/6 yellowish brown SCL w/ gravel					Positive
	35	0-16	10YR 5/3 brown SIL	16-56	10YR 6/4 light yellowish brown S	56-66	10Y/R 5/6 yellowish brown SCL					Positive
	36	0-40	10YR 6/3 pale brown COSL	40-65	10YR 6/4 light yellowish brown COSL	65-80	10YR 7/8 yellow SC					Positive
	39	0-25	10YR 5/3 brown LS	25-64	2.5Y 6/4 light yellowish brown S	64-74	10YR 5/8 yellowish brown SC					Positive
	43	0-28	10YR 5/3 brown SL	28-56	2.5Y 6/4 light yellowish brown S	56-66	10Y/R 5/6 yellowish brown SC					Positive
	45	0-25	10YR 5/3 brown SL	25-100	2.5Y 6/4 light yellowish brown S	100-110	10Y/R 5/6 yellowish brown SC					Positive
	46	0-29	10YR 5/3 brown S	29-77	10YR 6/8 brownish yellow S	77-87	10YR 6/4 light yellowish brown SC					Positive
	49	0-29	10YR 5/3 brown S	29-73	10YR 6/8 brownish yellow S	73-83	10YR 6/4 light yellowish brown SC					Positive
	71	0-33	10YR 5/3 brown SL	33-66	10YR 7/6 yellow S	66-76	10YR 6/8 brownish yellow SC					Positive
	72	0-29	10YR 5/3 brown LS	29-40	10YR 6/4 light yellowish brown S w/ gravel	40-50	10Y/R 5/6 yellowish brown SC					Positive
31WA2040	1	0-17	10YR 4/4 dark yellow brown SL	17-38	10YR 6/4 light yellowish brown S	38-49	10YR 5/8 yellowish brown SC					Positive
	2	0-17	10YR brown 4/3 SL	17-38	10YR 6/3 pale brown SL	38-49	10YR 5/6 yellowish brown SC					Negative
	3	0-10	10YR 3/2 dark brown SIL	10-30	10YR 5/6 yellowish brown SICL							Negative
	4	0-37	10YR 4/2 dark grayish brown SL	37-50	10YR 5/4 yellowish brown SL							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil_ <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	5	0-16	10YR 4/2 dark grayish brown SIL	16-30	10YR 5/4 yellowish brown SL							Negative
	6	0-9	10YR 4/2 dark grayish brown SL	9-23	10YR 6/3 pale brown SL	23-33	7.5YR 5/8 strong brown SCL					Positive
	7	0-10	10YR 4/4 dark yellow brown SIL	10-18	10YR 5/3 brown SIL	18-32	10YR 6/8 brownish yellow C					Negative
	8	0-13	10YR 5/4 yellowish brown SL	13-55	10YR 5/3 brown S	55-62	10YR 6/8 brownish yellow SC					Negative
	9	0-8	10YR 3/4 dark yellowish brown SL	8-55	2.5Y 5/6 light olive brown S	55-73	10YR 5/8 yellow brown C mottled w/ 2.5YR 4/6 olive brown C					Positive
	10	0-16	10YR 4/4 dark yellowish brown SL	16-24	10YR 6/4 light yellowish brown S	24-35	7.5YR 5/8 strong brown SC					Negative
	11	0-14	10YR 5/2 grayish brown SL	14-30	10YR 6/2 light brownish gray SL	30-40	10YR 5/6 yellowish brown SC					Negative
	12	0-12	10YR 4/4 dark yellowish brown SL	12-41	10YR 5/6 yellowish brown S	41-52	10YR 5/6 yellowish brown SC					Negative
	13	0-10	10YR 3/2 dark brown L	10-22	10YR 5/4 yellowish brown SIL	22-40	10YR 6/8 brownish yellowish SC					Negative
	14	0-16	10YR 3/4 dark yellowish brown SL	16-35	10YR 5/4 yellowish brown S	35-45	7.5YR 5/8 strong brown C					Negative
	15	0-11	10YR 5/4 yellowish brown SL	11-34	10YR 6/4 light yellowish brown S	34-40	10YR 5/8 yellowish brown SC					Negative
	16	0-13	10YR 4/2 dark grayish brown L	13-30	10YR 5/6 yellowish brown SICL							Negative
	17	0-10	10YR 5/3 brown SL	10-25	10YR 6/4 light yellowish brown SL	25-35	7.5YR 5/8 strong brown SC					Negative
	18	0-12	10YR 5/4 yellowish brown SL	12-25	10YR 6/3 pale brown SC	25-33	10YR 5/8 yellowish brown SC					Negative
	19	0-25	10YR 5/6 yellowish brown S	25-42	10YR 5/6 yellowish brown S	42-53	7.5YR 5/8 strong brown C					Negative
31WA2041	1	0-7	10YR 4/4 dark yellowish brown SL		10YR 5/4 yellowish brown SL		10YR 5/8 yellowish brown SIC					Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	2	0-25	10YR 4/6 dark yellowish brown SCL	25-37	10YR 5/6 yellowish brown SC							Negative
	3	0-10	10YR 4/4 dark yellowish brown SL	0-40	10YR 6/4 light yellowish brown S							Negative
	4	0-7	10YR 5/3 brown SL	7-24	10YR 5/6 yellowish brown S	24-40	7.5YR 5/6 strong brown C					Negative
	5	0-32	10YR 4/6 dark yellowish brown SCL	32-40	10YR 5/6 yellowish brown SC							Positive
	6	0-12	10YR 3/3 dark brown L	12-28	10YR 3/6 dark yellowish brown S							Negative
	7	0-10	2.5Y 5/4 reddish brown S									Negative
	8	0-8	10YR 4/3 brown SL	8-23	10YR 5/3 brown SL	23-33	7.5YR 5/8 strong brown SC					Negative
	9	0-7	10YR 4/3 brown SL	7-11	10YR 4/6 dark yellowish brown SCL	11-20	10YR 4/6 dark yellowish brown SCL mottled w/ 10YR 5/8 brown SC					Negative
	10	0-15	10YR 3/3 dark brown SIL	15-30	10YR 5/6 yellowish brown SIL							Negative
	11	0-5	10YR 3/3 dark brown SL	5-24	10YR 5/8 yellowish brown S	24-36	10YR 5/8 yellowish brown C					Negative
	12	0-8	10YR 4/4 dark yellowish brown SL	8-30	10YR 4/6 dark yellowish brown SL	30-42	2.5YR 4/4 olive brown CL					Negative
	13	0-5	10YR 4/4 dark yellowish brown SL	5-48	10YR 6/6 brownish yellow S							Negative
	14	0-12	10YR 4/4 dark yellowish brown SIL	12-24	10YR 6/8 brownish yellow SICL							Negative
31WA2042	1	0-24	10YR 5/3 brown SL	24-42	10YR 6/2 light brownish gray S	42-53	10YR 7/8 yellow SC					Positive
	2	0-25	10YR 4/4 dark yellowish brown SL	25-49	10YR 5/6 yellowish brown S	49-70	7.5YR 6/8 reddish yellow SC mottled w/ 10YR 5/4 yellow brown S					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	one 3 (Depth and Soil <u>Texture/Color)</u>	<u>Z</u> c	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	3	0-17	10YR 4/4 dark yellowish brown SL	17-59	10YR 6/3 pale brown S	59-83	10YR 6/2 light brownish gray SC mottled w/ 10YR 5/8 yellow brown S					Negative
	4	0-12	10YR 3/2 dark brown SL	12-32	10YR 5/8 yellowish brown SC w/ gravel and cobbles							Negative
	5	0-32	10YR 4/6 dark yellowish brown SL	32-48	10YR 5/6 yellowish brown SC w/ inclusions							Positive
	6	0-13	10YR 4/4 dark yellowish brown SL	13-20	10YR 6/3 pale brown S	20-30	10YR 5/8 yellowish brown C					Positive
	7	0-15	10YR 4/4 dark yellowish brown SL	15-35	10YR 6/3 pale brown S	35-50	10YR 7/6 yellow SC					Positive
	8	0-12	10YR 4/4 dark yellowish brown SL	12-29	10YR 6/6 brownish yellowish COS	29-36	10YR 5/8 yellowish brown SC w/ inclusions of degrading rock					Negative
	9	0-13	10YR 3/4 dark yellowish brown SL	13-25	10YR 5/6 yellowish brown C	25-39	7.5YR 5/8 strong brown C					Negative
	10	0-18	10YR 3/4 dark yellowish brown SL	18-58	10YR 6/6 brownish yellow S w/ cobbles	58-61	10YR 6/8 brownish yellow C					Negative
	11	0-15	10YR 5/4 yellowish brown SL	15-25	7.5YR 6/8 reddish yellow SC w/ gravel							Negative
	12	0-20	10YR 4/4 dark yellowish brown SL	20-30	10YR 6/3 pale brown S	30-40	7.5YR 5/8 strong brown C					Negative
	13	0-20	10YR 3/4 dark yellowish brown SL	20-59	2.5Y 6/4 light yellowish brown S	59-68	10YR 6/8 brownish yellow C					Negative
	14	0-13	10YR 3/4 dark yellowish brown SL	13-70	10YR 4/4 dark yellowish brown SL	70-86	10YR 6/8 brownish yellow C					Negative
	15	0-15	10YR 5/2 grayish brown SL	15-25	10YR 7/8 yellow SC mottled w/ 10YR 6/1 gray C							Negative
	16	0-12	10YR 4/4 dark yellowish brown SL	12-32	10YR 6/3 pale brown S	32-45	7.5YR 5/8 strong brown C					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil	<u>Z</u> c	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	17	0-6	10YR 3/4 dark yellowish brown SL	6-42	2.5Y 5/6 light olive brown S	42-52	10YR 6/8 brownish yellow C					Negative
	18	0-22	10YR 4/4 dark yellowish brown S	22-60	10YR 6/4 light yellowish brown S	60-70	10YR 6/8 brownish yellow C					Positive
	19	0-10	10YR 4/2 dark grayish brown SL	10-38	10YR 6/4 light yellowish brown S	38-48	7.5YR 5/8 strong brown SC					Negative
	20	0-15	10YR 3/4 dark yellowish brown SL	15-27	2.5Y 5/6 light olive brown S	27-37	10YR 6/8 brownish yellow C					Negative
31WA2043	1	0-11	10YR 4/4 dark yellowish brown SL	11-72	10YR 6/6 brownish yellow S	72-85	10YR 6/6 brownish yellow S w/ decomposing rock					Positive
	2	0-6	10YR 3/6 dark yellowish brown SL	6-25	2.5Y 5/6 light olive brown S	25-38	10YR 5/8 yellowish brown C					Negative
	3	0-15	10YR 5/4 yellowish brown SL	15-50	10YR 6/3 pale brown SL	50+	rock impasse					Negative
	4	0-15	10YR 3/3 dark brown SIL	15-52	10YR 4/4 dark yellowish brown SL	52-74	2.5Y 5/6 light olive brown S					Negative
	5	0-20	10YR 4/4 dark yellowish brown SL	20-30	10YR 6/3 pale brown SL	30+	rock impasse					Negative
	6	0-5	10YR 3/3 dark brown SL	5-24	10YR 5/8 yellowish brown S	24-36	5YR 5/8 yellowish red C					Negative
	7	0-20	10YR 4/3 brown SL w/ gravel		rock impasse							Negative
	8	0-28	10YR 3/3 dark brown SIL	28-47	2.5Y 4/4 olive brown S	47+	rock impasse					Negative
	9	0-20	10YR 4/3 brown SL w/ gravel		rock impasse							Negative
	10	0-12	10YR 4/4 dark yellowish brown SL	12-42	2.5Y 5/6 light olive brown S	42-58	10YR 5/8 yellowish brown C					Negative
	11	0-19	7.5YR 5/6 strong brown C	19-30	7.5YR 5/8 strong brown SC							Negative
	12	0-18	7.5YR 5/6 strong brown C	18-30	7.5YR 5/8 strong brown SC							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	one 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil <u>Texture/Color)</u>	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	13	0-17	10YR 4/6 dark yellowish brown SL	17-35	10YR 5/6 yellowish brown SC	35-42	10YR 6/6 brownish yellow S	42-52	7.5YR 5/8 strong brown SC			Negative
	14	0-11	10YR 4/4 dark yellowish brown SL	11-26	2.5Y 5/6 light olive brown S	26-36	10YR 6/6 brownish yellow C mottled w/ 7.5YR 5/8 strong brown C					Negative
31WA2044	1	0-8	10YR 4/3 brown SL	9-28	10YR 5/4 yellowish brown SL	28-37	10YR 6/8 brownish yellow SC					Positive
	2	0-6	10YR 4/4 dark yellowish brown SL	6-32	10YR 6/4 light yellowish brown S	32-45	10YR 6/3 pale brown C					Negative
	3	0-17	10YR 6/6 brownish yellow SL	17-32	10YR 6/3 pale brown S	32-46	10YR 4/6 dark yellowish brown S	46-51	10YR 5/8 yellowish brown SC			Positive
	4	0-46	10YR 5/6 yellowish brown SL	46-61	10YR 7/8 yellow SC	61-71	10YR 5/6 yellowish brown C					Positive
	5	0-10	10YR 5/6 yellowish brown SL	10-30	10YR 7/8 yellow SC							Negative
	6	0-19	10YR 7/8 yellowish SL	19-30	10YR 7/8 yellow SC							Negative
	7	0-7	10YR 4/3 brown SL	7-17	10YR 5/4 yellowish brown SL	17-27	10YR 6/8 brownish yellow SC					Negative
	8	0-8	10YR 4/3 brown SL	8-36	10YR 5/4 yellowish brown SL	36-46	10YR 6/8 brownish yellow SC					Negative
	9	0-43	10YR 7/8 yellowish SL	43-54	10YR 7/4 very pale brown SL							Positive
	10	0-18	10YR 4/4 dark yellowish brown SL mottled w/ 10YR 6/6 brownish yellowish S	18-27	10YR 5/6 yellowish brown S mottled w/ 7.5YR 5/8 strong brown C	27-37	7.5YR 5/8 strong brown C					Negative
	11	0-6	10YR 4/4 dark yellowish brown SL	6-33	10YR 6/4 light yellowish brown S	33-43	10YR 5/8 yellowish brown S					Negative
	12	0-40	10YR 7/8 yellowish SL	40-50	5YR 7/8 reddish yellow SC							Positive
	13	0-30	10YR 7/8 yellowish SL	30-40	5YR 7/8 reddish yellow SC							Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil <u>Texture/Color)</u>	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	14	0-4	10YR 4/4 dark yellowish brown SL	4-30	2.5Y 5/6 light olive brown SL	30-48	2.5YR 6/6 light red S	48-60	10YR 6/8 brownish yellow C			Negative
	15	0-18	10YR 6/6 brownish yellow S	18-36	10YR 5/8 yellowish brown SC							Negative
	16	0-12	10YR 4/4 dark yellow brown SL	12-20	10YR 6/6 brownish yellow S	20-30	10YR 5/8 yellowish brown SC					Negative
	17	0-8	10YR 4/4 dark yellow brown SL	8-60	10YR 5/6 yellowish brown S	60-73	10YR 6/8 brownish yellow C					Negative
	18	0-10	10YR 4/3 brown SL	10-17	10YR 5/4 yellowish brown SL	17-30	10YR 6/8 brownish yellow SC					Negative
	19	0-25	10YR 4/3 brown SL mottled w/ 10YR 5/4 yellowish brown SL	25-35	10YR 6/8 brownish yellow SC							Negative
	20	0-28	10YR 5/4 yellowish brown SL	28-48	10YR 6/4 light yellowish brown SC							Negative
31A2045	1	0-24	10YR 4/4 dark yellowish brown SL	24-34	7.5YR 4/6 strong brown COSC							Positive
	2	0-24	10YR 4/4 dark yellowish brown SL	24-35	7.5YR 4/6 strong brown COSC							Negative
	3	0-30	10YR 5/4 yellowish brown SL		rock impasse							Negative
	4	0-4	10YR 4/4 dark yellowish brown SL	4-70	10YR 5/6 yellowish brown S							Negative
	5	0-10	10YR 4/4 dark yellowish brown SL	10-17	2.5Y 5/6 light olive brown SL mottled w/ 7.5 5/8 strong brown S and concretions	17-28	7.5 5/8 strong brown C					Negative
	6	0-13	10YR 2/1 black L	13-30	10YR 6/6 brownish yellow SIC							Negative
	7	0-50	10YR 5/4 yellowish brown SL, filling w/ water									Negative
	8	0-14	10YR 4/4 dark yellowish brown SL	14-36	10YR 5/6 yellowish brown I	36-46	7.5YR 5/8 strong brown SC					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	9	0-7	10YR 4/4 dark yellowish brown SL	7-22	10YR 6/6 brownish yellow SCL							Negative
31WA2046	1	0-20	10YR 4/4 dark yellowish brown SL	20-50	10YR 6/6 brownish yellow S	50-63	7.5YR 5/8 strong brown SC					Positive
	2	0-18	10YR 4/4 dark yellowish brown SL	18-48	10YR 6/6 brownish yellow S	48-62	7.5YR 5/8 strong brown S w/ gravel					Negative
	3	0-19	10YR 4/3 brown SL	19-51	10YR 6/6 brownish yellow S	51-62	10YR 5/6 yellowish brown SC					Negative
	4	0-27	10YR 5/3 brown SL	27-38	10YR 6/3 pale brown SL							Negative
	5	0-23	10YR 4/4 dark yellowish brown SL	23-52	10YR 6/6 brownish yellow S	52-65	7.5YR 5/8 strong brown SC					Positive
	6	0-15	10YR 3/3 dark brown SL	15-33	2.5Y 6/4 light yellowish brown S	33-46	7.5YR 5/8 strong brown SC					Negative
	7	0-6	10YR 3/3 dark brown SL	6-51	2.5Y 6/4 light yellowish brown S	51-62	10YR 5/6 yellowish brown S mottled w/ 7.5YR 6/8 reddsih yellowish SC					Negative
	8	0-22	10YR 6/4 light yellowish brown SL	22+	rock impasse							Negative
	9	0-18	10YR 3/3 dark brown SL	18-59	2.5Y 6/4 light yellowish brown S	59-80	10YR 5/6 yellowish brown SCL mottled w/ 7.5YR 6/8 reddsih yellowish SC					Negative
	10	0-19	10YR 4/4 dark yellowish brown SL	19-39	10YR 6/2 light brownish gray S	39-47	10YR 6/2 light brownish gray SCL mottled w/ 7.5YR 6/8 brownish yellow SC					Negative
	11	0-17	10YR 3/3 dark brown SL	17-55	2.5Y 6/4 light yellowish brown S	55-64	10YR 5/6 yellowish brown SCL mottled w/ 7.5YR 6/8 reddsih yellowish SC					Negative
	12	0-20	10YR 4/4 dark yellowish brown SL	20-34	10YR 6/6 brownish yellow S	34-60	7.5YR 6/8 reddish yellow SC					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil_ <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	13	0-14	10YR 5/3 brown SL	14-25	10YR 6/3 pale brown SL							Negative
31WA2047	1	0-14	10YR 3/4 dark yellowish brown SL	14-26	10YR 6/4 light yellowish brown S mottled w/ 10YR 6/8 brownish yellowish C	26-38	10YR 6/8 brownish yellow C					Positive
	2	0-13	10YR 6/2 light brownish gray S	13-55	10YR 6/4 light yellowish brown SL	55-65	10YR 6/6 brownish yellow S					Negative
	3	0-18	10YR 4/4 dark yellowish brown SL	18-54	10YR 6/4 light yellowish brown S	54-65	10YR 5/8 yellowish brown C					Negative
	4	0-11	10YR 5/4 yellowish brown SL	11-18	10YR 6/6 brownish yellow S	18-31	10YR 5/8 yellowish brown SC					Negative
	5	0-19	10YR 4/4 dark yellowish brown SL	19-27	10YR 6/4 light yellowish brown S	27-37	10YR 5/8 yellowish brown SC					Negative
	6	0-15	10YR 3/4 dark yellowish brown SL, wet	15-25	Hydric							Negative
	7	0-6	10YR 3/3 dark brown L	6-18	10YR 5/1 gray SIL	18-33	10YR 6/8 brownish yellow C					Negative
	8	0-10	10YR 3/3 dark brown SL	10-20	10YR 6/6 brownish yellow SC w/ gravel							Negative
	9	0-28	10YR 4/4 dark yellowish brown SL	28-40	10YR 6/4 light yellowish brown S	40-50	10YR 5/8 yellowish brown SC					Negative
31WA2048&2 048**	1	0-16	10YR 4/3 brown SL (reformed A-horizon)	16-49	10YR 5/4 yellowish brown SL (fill layer)	49-62	10YR 5/3 brown SIL (buried A-horizon)	62-85	10YR 6/4 light yellowish brown S (B-horizon)	85-100	10YR 5/6 yellowish brown SC (C-horizon)	Positive
	2	0-13	10YR 4/3 brown SL	13-30	10YR 5/6 yellowish brown SL							Negative
	J-1	0-17	10YR 5/3 brown SL	17-30	10YR 6/8 brownish yellow SC							Negative
	J-2	0-25	2.5Y 5/4 light olive brown SIL	25-33	10YR 5/8 yellowish brown C							Negative
	J-3	0-29	10YR 6/3 pale brown S	29-38	2.5YR 5/8 red SC							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Z</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	J-4	0-32	2.5Y 5/4 light olive brown SIL	32-57	10YR 6/6 brownish yellow S	57-72	10YR 5/8 yellowish brown SC					Negative
31WA2049	1	0-27	10YR 5/3 brown SIL	27-43	10YR 6/4 light yellowish brown S	43-55	10YR 5/6 yellowish brown SC					Positive
	3	0-32	10YR 5/3 brown SIL	32-38	10YR 6/4 light yellowish brown S	38-45	10YR 5/6 yellowish brown SC					Negative
	5	0-29	10YR 4/3 brown SL	29-40	10YR 6/6 brownish yellow S	40-50	10YR 6/8 brownish yellow SC					Positive
	6	0-15	10YR 4/3 brown SL	15-30	10YR 6/4 light yellowish brown S	30-40	10YR 6/8 brownish yellow SC					Negative
	7	0-42	10YR 4/3 brown SL	42-60	10YR 6/4 light yellowish brown S	60-70	10YR 6/8 brownish yellow SC					Positive
	8	0-25	10YR 4/3 brown SL	25-60	10YR 6/4 light yellowish brown S	60-70	10YR 6/8 brownish yellow SC					Positive
	9	0-21	2.5Y 4/4 olive brown SL	21-45	2.5Y 6/4 light yellowish brown S w/ traces of C wet	45-55	10YR 5/8 yellowish brown SC -wet					Positive
	11	0-13	10YR 4/3 brown SL	13-25	10YR 6/6 brownish yellow S	25+	root inpasse					Negative
	16	0-28	10YR 4/3 brown SL	28-48	10YR 6/4 light yellowish brown S	48-58	10YR 5/6 yellowish brown SC					Positive
	20	0-26	10YR 4/4 dark yellowish brown SL	26-59	10YR 6/8 brownish yellow SL	59-69	2.5Y 6/4 light yellowish brown C					Positive
	26	0-28	10YR 4/4 dark yellowish brown SL	28-51	10YR 6/8 brownish yellow SL	51-61	2.5Y 6/4 light yellowish brown C					Positive
	28	0-20	10YR 4/4 dark yellowish brown SL	20-35	10YR 6/8 brownish yellow SL	35-45	2.5Y 6/4 light yellowish brown C					Negative
	30	0-27	10YR 4/4 dark yellowish brown SL	27-70	10YR 6/8 brownish yellow SL	70-80	2.5Y 6/4 light yellowish brown C					Negative
	34	0-24	10YR 4/4 dark yellowish brown SL	24-38	10YR 6/8 brownish yellow SL	38-48	2.5Y 6/4 light yellowish brown C					Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
31WA2050	1	0-10	10YR 3/3 dark brown SIL	10-19	10YR 3/6 dark yellowish brown SL	19-40	2.5Y 6/4 light yellowish brown S	40-55	7.5YR 5/8 strong brown SC mottled w/ 2.5Y 6/4 light yellow brown SC			Positive
	3	0-38	10YR 4/3 brown SIL	38-68	10YR 6/4 light yellowish brown S	68-78	10YR 5/8 yellowish brown SCL					Negative
	5	0-32	10YR 5/3 brown SIL	32-43	10YR 6/6 brownish yellow SIL	43-53	10YR 6/8 brownish yellow SC					Negative
	6	0-24	10YR 3/3 dark brown SIL	24-42	10YR 6/6 brownish yellow SIL	42-56	10YR 6/8 brownish yellow SC					Negative
	7	0-10	10YR 5/3 brown SIL	10-20	7.5YR 5/8 strong brown SC							Negative
	8	0-20	10YR 5/3 brown SIL	20-30	7.5YR 5/8 strong brown SC							Negative
	9	0-12	10YR 2/2 light gray SIL	12-28	10YR 4/4 dark yellowish brown SL	28-38	10YR 5/8 yellowish brown SCL					Negative
	10	0-15	10YR 5/2 grayish brown SIL	15-27	7.5YR 5/8 strong brown SC							Negative
31WA2051	1	0-15	10YR 4/3 brown SIL	15-24	10YR 6/4 light yellowish brown S	24-38	10YR 7/4 very pale brown S					Positive
	2	0-20	10YR 4/3 brown SIL	0-25	10YR 6/4 light yellowish brown S	25-25	10YR 6/8 brownish yellow SC					Negative
31WA2052	1	0-22	10YR 5/3 brown SIL	22-87	10YR 6/4 light yellowish brown S							Positive
	2	0-7	10YR 5/3 brown SIL	7-15	10YR 6/4 light yellowish brown S	15-25	10YR 6/8 brownish yellow SC					Negative
	7	0-10	10YR 5/3 brown SIL	10-40	10YR 6/4 light yellowish brown S	40-50	10YR 6/8 brownish yellow SC					Negative
	9	0-17	10YR 5/3 brown SIL	17-48	10YR 6/4 light yellowish brown S	48-56	10YR 6/8 brownish yellow SC					Negative
	14	0-13	10YR 5/3 brown SIL	13-32	10YR 6/4 light yellowish brown S	32-52	10YR 6/8 brownish yellow SC					Negative
31WA2053	1	0-28	10YR 4/3 brown SIL	28-49	2.5Y 6/4 light yellowish brown I -wet	49-63	10YR 6/6 brownish yellow SC -wet					Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil <u>Texture/Color)</u>	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	4	0-13	10YR 5/3 brown SIL	13-23	10YR 6/4 light yellowish brown S	23-33	10YR 6/8 brownish yellow SC					Negative
	7	0-12	10YR 5/3 brown SIL	12-26	10YR 6/4 light yellowish brown S	26-37	10YR 6/8 brownish yellow SC					Negative
	9	0-10	10YR 5/3 brown SIL	10-25	10YR 6/4 light yellowish brown S	25-35	10YR 6/8 brownish yellow SC					Negative
31WA2054**	1	0-16	10YR 3/2 very dark grayish brown SL	16-25	2.5Y 5/6 light olive brown S	25-35	7.5YR 5/8 strong brown SC					Positive
	3	0-13	10YR 5/3 brown SIL	13-40	10YR 6/4 light yellowish brown S	40-50	10YR 6/8 brownish yellow SC					Negative
	5	0-15	10YR 5/3 brown SIL	15-32	10YR 6/4 light yellowish brown SIL							Negative
	7	0-11	10YR 5/3 brown SIL	11-22	10YR 6/4 light yellowish brown S	22-32	10YR 6/8 brownish yellow SC					Negative
31WA2055	1	0-12	10YR 3/3 dark brown SIL	12-48	5Y 4/2 olive gray SIL	48-62	10YR 6/4 light yellowish brown S	62-72	10YR 6/6 brownish yellow SC			Positive
	3	0-21	10YR 6/3 pale brown SL	21-34	10YR 5/3 brown S	34-40	10YR 5/6 yellowish brown SC					Negative
	5	0-78	10YR 4/3 brown SIL	78-102	10YR 6/6 brownish yellow SC							Negative
	6	0-20	Fill -10YR 4/6 dark yellow brown SL w/ gravel and mottled w/ 5YR 5/8 yellow red C	20-30	5YR 5/8 yellowish red C							Negative
	7	0-9	10YR 3/4 dark yellow brown SIL	9-34	10YR 4/4 dark yellow brown SICL w/ gravel	34-44	10YR 5/6 yellowish brown SC w/ gravel					Negative
	8	0-32	10YR 4/3 brown SIL	32-42	10YR 6/6 brownish yellow SC							Negative
31WA2056	1	0-6	10YR 4/3 brown SL	6-20	2.5Y 6/4 light yellowish brown S	20-30	10YR 5/6 yellowish brown SC					Positive
	2	0-22	10YR 4/3 brown SIL	22-29	2.5Y 5/2 grayish brown SICL	29-40	10YR 5/8 yellow brown SC					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil <u>Texture/Color)</u>	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	4	0-60	2.5Y 6/4 light yellow brown S	60-70	2.5Y 6/6 olive yellow S							Negative
	5	0-19	10YR 6/2 light brownsih gray SL	19-42	10YR 6/3 pale brown S	42-53	10YR 5/2 grayish brown					Positive
	6	0-5	10YR 4/3 brown SL	5-25	10YR 5/4 yellowish brown S	25-38	10YR 5/8 yellow brown SC					Negative
	7	0-9	10YR 4/3 brown SL	9-30	2.5Y 6/4 light yellowish brown S	30-42	10YR 6/6 brownish yellow SC					Negative
	9	0-27	2.5Y 5/4 light olive brown SL	27-43	2.5 Y 7/4 pale yellow S	43-53	10YR 6/8 brownish yellow SC					Negative
31WA2057	1	0-25	10YR 5/3 brown SL	25-51	10YR 6/4 light yellowish brown S	51-62	10YR 5/6 yellow brown SC					Positive
	2	0-17	10YR 4/3 brown SIL		2.5Y 6/4 light yellowish brown S		10YR 6/8 brownish yellow SC mottled w/ 10YR 6/4 light yellow brown SC					Negative
	3	0-10	10YR 4/3 brown SIL	10-22	2.5Y 6/4 light yellowish brown S	22-33	10YR 6/8 brownish yellow C					Negative
	4	0-32	10YR 5/3 brown SL	32-43	2.5Y 6/4 light yellowish brown S	43-52	10YR 5/8 yellowish brown SC					Negative
	6	0-25	2.5Y 5/4 light olive brown SL	25-47	2.5Y 6/4 light yellowish brown S	47-57	7.5YR 5/8 strong brown SC mottled w/ 2.5Y 6/6 olive brown SC					Negative
	7	0-20	10YR 4/3 brown SL	20-29	2.5Y 6/4 light yellowish brown S	29-39	10YR 5/6 yellowish brown SC					Negative
	8	0-47	10YR 3/3 dark brown SIL	47-62	2.5Y 6/4 light yellowish brown S	62-74	10YR 6/8 brownish yellow SC					Negative
	9	0-10	10YR 4/3 brown SIL	10-27	2.5Y 5/2 grayish brown SICL	27-37	10YR 4/6 dark yellowish brown C w/ traces of sand					Negative
	10	0-23	10YR 5/3 brown SL	23-30	2.5Y 6/4 light yellowish brown S	30-40	10YR 6/6 brownish yellow SC					Negative
	11	0-10	10YR 5/3 brown SL	10-32	10YR 6/6 brownish yellow S	32-39	10YR 5/7 yellowish brown SC					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	13	0-18	10YR 5/4 yellowish brown SL	18-30	10YR 6/8 brownish yellow SC							Negative
	18	0-20	10YR 5/3 brown SL	20-30	10YR 6/4 light yellowish brown S	30-40	10YR 5/6 yellowish brown SC					Positive
31WA2058	1	0-12	10YR 4/4 dark yellowish brown SL	12-20	10YR 6/6 brownish yellowish SC	20-28	10YR 5/8 yellowish brown SC					Positive
	3	0-12	10YR 3/3 dark brown SIL	12-21	10YR 6/4 light yellowish brown S	21-32	10YR 6/8 brownish yellow SC					Negative
	5	0-10	10YR 3/3 dark brown SIL	10-16	10YR 5/6 yellowish brown SC	16-26	7.5YR 5/6 strong brown C mottled w/ 2.5Y 4/4 olive brown C w/ traces of sand					Negative
	6	0-16	10YR 3/3 dark brown SIL	16-29	10YR 4/4 dark yellowish brown SL	29-36	10YR 5/6 yellowish brown SC	36-46	7.5YR 5/6 strong brown C			Negative
	7	0-7	10YR 5/8 red C									Negative
31WA2059	J-12	0-22	2.5Y 6/6 olive yellow S	22-33	10YR 6/8 brownish yellow SC							Negative
	1	0-14	10YR 2/1 black SL	14-32	2.5Y 6/6 olive yellow S		10YR 5/8 yellow brown c w/ traces of S					Positive
	2	0-13	10YR 5/3 brown SL	13-23	10YR 6/4 light yellowish brown S							Negative
	4	0-12	10YR 3/3 dark brown SL	12-44	10YR 6/4 light yellowish brown S	44-54	10YR 5/6 yellow brown SC					Negative
	5	0-9	10YR 3/3 dark brown SL	9-20	2.5Y 6/6 olive yellow S	20-31	5YR 5/8 yellow red SC					Negative
	6	0-9	10YR 3/3 dark brown SL	9-17	2.5Y 4/4 olive brown SC	17-29	2.5Y 4/2 dark reddish gray SC	29-42	7.5YR 5/6 strong brown C w/ 2.5Y 5/6 light olive brown C			Negative
	7	0-25	10YR 3/3 dark brown SIL	25-37	10YR 6/8 brownish yellow SC							Negative
	9	0-15	10YR 3/3 dark brown SIL	15-20	2.5Y 4/4 olive brown SC	20-40	2.5Y 4/2 dark reddish gray SC	40-54	7.5YR 5/6 strong brown C w/ 2.5Y 5/6 light olive brown C			Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
31WA2060	1	0-15	10YR 3/3 dark brown SIL	15-30	2.5Y 4/4 olive brown SC	30-47	10YR 6/8 brownish yellow SC					Positive
	3	0-10	10YR 2/2 very dark brown SL	10-20	2.5Y 4/4 olive brown S mottled w/ 5YR 5/8 yellow red S	20-30	7.5YR 5/6 strong brown C mottled w/ 5YR 5/8 yellow red C					Negative
	4	0-17	10YR 5/3 brown SL	17-30	10YR 6/4 light yellowish brown S	30-45	10YR 6/8 brownish yellow SC					Negative
	5	0-16	10YR 4/4 dark yellowish brown SL	16-21	10YR 6/4 light yellowish brown S	21-30	10YR 5/7 yellowish brown SC					Negative
	6	0-23	10YR 4/2 dark grayish brown SL mottled w/ 10YR 6/3 pale brown SL	23-35	10YR 6/8 brownish yellow SC							Negative
	7	0-20	10YR 3/3 dark brown SIL	20-35	10YR 6/8 brownish yellow SC							Positive
31WA787&78 7**	J-1	0-23	2.5Y 5/4 light olive brown SIL	23-33	10YR 5/8 yellowish brown SC							Positive
	J-2	0-23	2.5Y 5/4 light olive brown SIL	23-32	2.5Y6/4 light yellowish brown S w/ traces of C		10YR 5/8 yellowish brown SC					Positive
	J-3	0-22	10YR 5/3 brown SL	22-32	5YR 5/8 yellow red SC							Positive
	J-4	0-30	10YR 5/3 brown S	30-65	10YR 6/4 light yellowish brown SC	65-75	10YR 6/8 brownish yellow SC					Positive
	J-5	0-24	10YR 3/2 very dark grayish brown SIL	24-84	10YR 6/4 light yellowish brown SL	84-97	10YR 6/8 brownish yellow SC					Positive
	J-6	0-11	10YR 4/3 brown SL	11-32	2.5Y 5/6 light olive yellow	32-92	10YR 6/8 brownish yellow SC					Positive
	J-7	0-15	10YR 3/2 very dark grayish brown SIL	15-52	10YR 6/3 pale brown S	52-67	10YR 6/6 brownish yellow SC					Positive
	3	0-45	10YR 4/3 brown SL	45-55	2.5Y 5/6 light olive yellow	55-65	10YR 6/8 brownish yellow SC					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil	<u>Zo</u>	ne 4 (Depth and Soil_ <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	4	0-18	2.5Y 3/2 very dark grayish brown SIL w/ gravel	18-42	2.5Y 6/6 olive yellow S w/ gravel							Negative
	5	0-13	10YR 4/4 dark yellow brown SL	13-27	10YR 5/3 brown SCL	27-40	10YR 4/6 dark yellow brown SC	40-46	10YR 5/7 yellow brown SC			Negative
	6	0-15	10YR 4/2 dark grayish brown SL	15-26	2.5Y 6/4 light yellowish brown S	26-36	2.5Y 7/6 yellow SC					Negative
	8	0-9	10YR 3/2 very dark grayish brown SIL	9-17	10YR 6/3 pale brown S	17-40	10YR 6/6 brownish yellow SC					Negative
	9	0-17	10YR 3/2 very dark grayish brown SIL	17-67	10YR 6/3 pale brown S	67-77	10YR 6/6 brownish yellow SC					Negative
	10	0-10	10YR 3/2 very dark grayish brown SIL	10-50	10YR 6/3 pale brown S	50-67	10YR 6/6 brownish yellow SC					Negative
	11	0-15	10YR 3/2 very dark grayish brown SIL	15-28	10YR 6/3 pale brown S	28-38	10YR 5/5 yellowish brown					Negative
	12	0-14	10YR 4/3 brown SL	14-28	10YR 4/6 dark yellowish brown SL	28-43	10YR 5/3 brown SC	42-55	10YR 5/7 yellowish brown SC			Negative
	13	0-23	10YR 4/3 brown I	23-42	10YR 5/3 brown SC	42-62	10YR 5/7 yellowish brown SC					Negative
31WA2061	1	0-20	10YR 5/4 yellowish brown SL	20-35	10YR 6/6 brownish yellow S	35-47	5YR 5/8 yellowish red SC					Positive
	5	0-26	2.5Y 6/6 olive yellow SL	26-55	2.5Y 6/4 light reddish brown S	55-65	7.5YR 6/8 reddish yellow SC					Positive
	7	0-37	10YR 4/3 brown SIL	37-47	10YR 4/6 dark yellowish brown S							Positive
	8	0-27	2.5Y 6/6 olive yellow SL	27-30	2.5Y 6/4 light reddish brown S -oxidized	30-55	7.5YR 6/8 reddish yellow SC					Positive
	9	0-37	10YR 6/6 brownish yellowish SL -slightly mottled w/ Zone 2	37-47	7.5YR 5/8 strong brown SC							Positive
	12	0-5	10YR 3/3/ dark brown	5-90	10YR 6/4 light yellowish brown S	90-	10YR 5/6 yellowish brown SC					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil_ Texture/Color)	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	13	0-28	10YR 6/4 light yellowish brown S	28-75	10YR 6/3 pale brown S	75-80	10YR 6/4 light yellowish brown S w/ gravel					Positive
	15	0-31	10YR 6/3 pale brown S	31-80	10YR 6/4 light yellowish brown S	80-88	10YR 6/4 light yellowish brown S w/ gravel					Negative
	19	0-25	10YR 6/3 pale brown S	25-90	10YR 6/4 light yellowish brown S							Positive
	20	0-27	10YR 6/3 pale brown S	27-26	10YR 6/4 light yellowish brown S	26-95	10YR 5/8 yellowish brown SC					Positive
	25	0-67	2.5Y 6/4 light yellowish brown SL	67-77	10YR 7/8 yellow SC							Positive
	26	0-34	2.5Y 5/4 light olive brown SL	34-49	2.5Y 7/6 yellow S	49-59	10YR 6/8 brownish yellow SC					Positive
	32	0-28	2.5Y 4/4 olive brown SL mottled w/ 10YR 5/6 yellowish brown SL	28-91	2.5Y 6/6 olive yellow S	91-100	10YR 5/8 yellowish brown SC					Positive
	37	0-40	10YR 6/3 pale brown SL	40-70	10YR 6/6 brownish yellow S	70-80	10YR 5/8 yellowish brown SC					Positive
	40	0-30	10YR 6/3 pale brown SL	30-50	10YR 6/6 brownish yellow S	50-60	10YR 5/8 yellowish brown SC					Positive
	41	0-5	10YR 7/3 very pale brown SL	5-90	10YR 6/6 brownish yellow S	90-100	10YR 5/8 yellowish brown SC					Positive
	49	0-35	2.5Y 6/4 light yellowish brown S	35-100	2.5Y 6/2 light brownish gray S							Positive
	54	0-29	10YR 4/4 dark yellowish brown SL	29-60	10YR 6/4 light yellowish brown S	60-70	10YR 5/8 yellowish brown SC					Positive
	59	0-100	2.5Y 6/4 light yellowish brown SL									Positive
	73	0-74	2.5Y 5/6 light olive brown SIL	74-86	10YR 5/8 yellowish brown SC							Positive
	77	0-32	2.5Y 5/4 light olive brown SIL	32-40	10YR 6/8 brownish yellow SC							Positive
<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Z</u> c	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil <u>Texture/Color)</u>	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
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	78	0-19	10YR 5/4 yellowish brown SL	19-29	10YR 6/8 brownish yellow C							Positive
	86	0-28	10YR 6/4 light yellowish brown S	28-75	10YR 6/3 pale brown S	75-80	10YR 6/4 light yellowish brown S w/ gravel					Positive
	95	0-15	10YR 5/3 brown SL	15-78	10YR 6/6 brownish yellow SL							Positive
	104	0-21	10YR 5/3 brown SL	21-103	10YR 6/6 brownish yellow SL							Positive
	107	0-17	10YR 5/3 brown SL	17-75	10YR 6/6 brownish yellow SL	75-87	10YR 6/8 brownish yellow SC					Positive
	109	0-16	10YR 3/2 very dark grayish brown	16-35	10YR 6/6 brownish yellow SL							Positive
31WA2062&2 062**	6	0-10	10YR 4/3 brown SIL	10-50	10YR 6/6 brownish yellow S	50-60	10YR 5/8 yellowish brown SC					Negative
	8	0-13	10YR 3/3 dark brown SL	13-50	10YR 6/6 brownish yellow S w/ gravel	50+	compact gravel impasse					Negative
	9	0-15	10YR 3/3 dark brown SL	15-45	10YR 5/6 yellowish brown SC	45-60	10YR 5/8 yellowish brown SC w/ gravel					Positive
	10	0-27	10YR 3/3 dark brown SL	27-53	10YR 5/6 yellowish brown S	53-63						Positive
	11	0-27	10YR 4/3 brown SIL	27-60	10YR 6/3 pale brown S	60-70	10YR 5/6 yellowish brown S					Positive
	13	0-20	10YR 5/4 yellowish brown SL	20-32	2.5Y 6/6 olive yellow SC mottled w/ 10YR 6/8 brownish yellow SC w/ gravel							Negative
	14	0-17	10YR 5/4 yellowish brown SL	17-28	2.5Y 6/6 olive yellow S w/ gravel	28-38	10YR 6/8 brownish yellow SC					Negative
	15	0-23	10YR 5/4 yellowish brown SL	23-33	2.5Y 6/6 olive yellow SC mottled w/ 10YR 6/8 brownish yellow SC w/ gravel							Negative
	16	0-6	10YR 5/3 brown SL	6-16	2.5Y 5/4 light olive brown SL	16-52	10YR 6/8 brownish yellow SC					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil_ <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil <u>Texture/Color)</u>	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	18	0-25	10YR 3/3 dark brown SL	25-80	10YR 6/6 brownish yellow S	80-85	10YR 6/8 brownish yellow SC					Negative
	20	0-30	10YR 5/4 yellowish brown SL	30-58	2.5Y 6/6 olive yellow S w/ gravel	58-68	10YR 6/8 brownish yellow SC					Negative
	21	0-17	10YR 3/3 dark brown SIL	17-44	10YR 5/6 yellowish brown S	44-55	10YR 5/8 yellowish brown SC w/ gravel					Negative
	22	0-13	10YR 3/3 dark brown SL	13-25	2.5Y 6/6 olive yellow S mottled w/ 10YR 5/6 yellow brown S w/ gravel	25-35	10YR 6/8 brownish yellow SC w/ gravel					Negative
	23	0-4	10YR 3/3 dark brown SL	4-49	2.5Y 6/6 olive yellow S mottled w/ 10YR 5/6 yellow brown S w/ gravel	49-59	10YR 6/8 brownish yellow SC w/ gravel					Negative
	24	0-16	10YR 3/3 dark brown SL	6-16	2.5Y 6/6 olive yellow S mottled w/ 10YR 5/6 yellow brown S w/ gravel	16-54	10YR 6/8 brownish yellow SC w/ gravel					Negative
	27	0-15	10YR 3/3 dark brown SL	15-25	2.5Y 6/6 olive yellow S mottled w/ 10YR 5/6 yellow brown S w/ gravel	25-35	10YR 6/8 brownish yellow SC w/ gravel					Negative
31WA2063	2	0-27	10YR 4/2 dark grayish brown SL	27-50	10YR 6/6 brownish yellow S	50-60	10YR 6/8 brownish yellow SC					Positive
	3	0-15	10YR 4/2 dark grayish brown SL	15-27	10YR 6/4 brownish yellow S	27-37	10YR 6/8 brownish yellow SC					
	4	0-28	10YR 4/3 brown SL	28-60	2.5Y 6/6 olive yellow S	60-76	10YR 7/8 yellow SC					Negative
	6	0-23	10YR 4/4 dark yellowish brown SL	23-65	10YR 5/6 yellowish brown S	65-97	2.5Y 6/4 light yellowish brown	97-100	10YR 7/8 yellow SC			Negative
	8	0-16	10YR 4/2 dark grayish brown SL	16-27	10YR 5/3 brown S	27-50	2.5Y 6/2 light brownish gray S mottled w/ 10YR 4/2 dark grayish brown S					Negative
	9	0-20	10YR 2/2 very dark brown SL	20-25	10YR 4/6 dark yellowish brown SL	25-40	10YR 2/1 black SC -hydric					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil_ <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	10	0-8	10YR 4/2 dark grayish brown SIL	8-80	10YR 6/4 light yellowish brown S							Negative
	11	0-21	10YR 4/3 brown SL	21-27	2.5Y 6/4 light yellowish brown SICL	27-40	7.5YR 5/8 strong brown C					Negative
	12	0-26	10YR 4/3 brown SL	26-57	10YR 6/4 brownish yellow S	57-67	10YR 6/6 brownish yellow S					Positive
	13	0-17	10YR 3/3 dark brown SL	17-45	10YR 6/4 brownish yellow S	45-55	10YR 6/6 brownish yellow S					Negative
	15	0-18	10YR 2/2 very dark brown SL	18-50	10YR 5/6 yellowish brown S	50-78	10YR 5/2 grayish brown S	78-102	10YR 7/2 light gray SC			Negative
	16	0-17	10YR 3/3 dark brown SL	17-45	10YR 6/4 brownish yellow S	45-55	10YR 6/6 brownish yellow S					Negative
	17	0-12	10YR 3/3 dark brown SICL	12-23	7.5YR 5/8 strong brown C							Negative
	18	0-14	10YR 2/2 very dark brown SL	14-42	10YR 5/6 yellowish brown S	42-70	10YR 2/2 very dark brown S	70-100	10YR 7/2 light gray SC			Negative
	19	0-10	10YR 3/3 dark brown SIL	10-22	2.5Y 5/4 light olive brown SICL	22-40	7.5Y 5/8 strong brown C					Negative
31WA2064	1	0-25	10YR 3/2 very dark grayish brown SL	25-36	10YR 5/6 yellowish brown SL							Positive
	2	0-16	10YR 4/4 dark yellowish brown SIL	16-38	10YR 5/6 yellowish brown SC	38-49	10YR 5/8 yellowish brown C					Negative
	3	0-6	10YR 4/4 dark yellowish brown CL	6-36	10YR 5/4 yellowish brown SC	36-64	10YR 4/2 dark grayish brown C					Negative
	4	0-23	10YR 5/4 yellowish brown SL	23-40	10YR 5/6 yellowish brown SL							Negative
	5	0-30	10YR 5/4 yellowish brown SL	30-33	Hydric							Negative
	6	0-10	10YR 4/4 dark yellowish brown SIL	10-32	10YR 5/2 grayish brown SIL	32-48	10YR 6/2 light brownish gray LS					Negative
	7	0-8	10YR 4/4 dark yellowish brown SL	8-41	10YR 5/4 yellowish brown SC	41-53	10YR 7/2 light gray S, wet					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	8	0-20	10YR 4/4 dark yellowish brown SL	20-36	10YR 5/6 yellowish brown SL							Negative
	9	0-20	10YR 3/2 very dark grayish brown SL	20-30	10YR 5/6 yellowish brown SL							Negative
	10	0-24	10YR 3/2 very dark grayish brown SL	24-35	10YR 5/4 yellowish brown SC							Negative
31WA2065	1	0-15	10YR 4/4 dark yellowish brown SL	15-44	10YR 6/4 light yellowish brown S w/ waterworn cobbles							Positive
	2	0-15	10YR 4/3 brown SL	15-35	10YR 5/6 yellowish brown SL	35-45	10YR 5/8 yellowish brown S					Negative
	3	0-24	10YR 4/4 dark yellowish brown SIL	24-43	10YR 5/6 yellowish brown S	43-54	Hydric					Negative
	4	0-35	10YR 4/4 dark yellowish brown SL	35-100	10YR 6/4 light yellowish brown S							Negative
	5	0-26	10YR 4/4 dark yellowish brown SL	26-40	10YR 5/6 yellowish brown S							Negative
	6	0-8	10YR 4/4 dark yellowish brown SL	8-38	10YR 5/4 yellowish brown SCL, transitioning to SC							Negative
	7	0-20	10YR 4/4 dark yellowish brown SL	20-35	10YR 5/6 yellowish brown S							Negative
	8	0-17	10YR 4/4 dark yellowish brown SL	17-32	10YR 5/4 yellowish brown SL	32-43	10YR 6/6 brownish yellowish SC					Negative
	9	0-18	10YR 4/4 dark yellowish brown SL	18-27	10YR 6/4 light yellowish brown S	27-38	10YR 5/8 yellowish brown SC					Positive
	10	0-28	10YR 4/2 dark grayish brown SL	28-40	10YR 6/4 light yellowish brown SL							Negative
	11	0-14	10YR 4/4 dark yellowish brown SICL	14-25	10YR 5/6 yellowish brown SC	25-38	10YR 5/8 yellowish brown C					Negative
	12	0-11	10YR 3/3 dark brown SL	11-20	10YR 6/6 brownish yellow SC	20-30	10YR 6/8 brownish yellow C					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil_ Texture/Color)	<u>Zo</u>	ne 3 (Depth and Soil	<u>Zo</u>	ne 4 (Depth and Soil_ <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	13	0-24	10YR 4/3 brown SL	24-40	10YR 5/4 yellowishbrown SL	40-43	10YR 5/4 yellowish brown SL w/ decaying sandstone					Negative
	14	0-17	10YR 4/4 dark yellowish brown SICL	17-52	10YR 6/4 light yellowish brown SL	52-64	10YR 5/8 yellowish brown C					Positive
	15	0-9	10YR 4/4 dark yellowish brown SICL	9-16	10YR 6/4 light yellowish brown SL	16-64	10YR 5/6 yellowish brown SC					Negative
	16	0-18	10YR 4/3 brown SL	18-23	10YR 6/4 light yellowish brown SL w/ waterworn cobbles							Negative
	17	0-32	10YR 6/4 light yellowish brown S	32-65	10YR 6/2 light brownish gray S	65-75	10YR 8/2 very pale brown S, wet	75+	Hydric			Positive
	18	0-20	10YR 3/6 dark yellowish brown SIL	20-62	10YR 4/6 dark yellowish brown I							Negative
	19	0-21	10YR 4/3 brown SL	21-69	10YR 6/4 light yellowish brown SL	69-73	Hydric					Negative
	20	0-13	10YR 4/4 dark yellowish brown SIL	13-28	10YR 6/6 brownish yellow S w/ waterworn cobbles	28-36	2.5Y 6/4 light yellow brown COS w/ waterworn cobbles					Negative
31WA2066&2 066**	2	0-32	10YR 5/3 brown SIL	32-47	10YR 6/8 brownish yellow SC							Negative
	4	0-30	10YR 5/3 brown SIL	30-47	10YR 6/8 brownish yellow SC							Positive
31WA2067&2 067**	1	0-30	10Yr 6/3 pale brown SL	30-40	5YR 5/8 yellowish red							Negative
	2	0-27	10YR 5/3 brown SIL	27-38	10YR 6/8 brownish yellow SC							Negative
	3	0-10	10YR 5/3 brown SIL	10-20	10YR 6/8 brownish yellow SC							Negative
31WA2068	1	0-10	10YR 5/3 brown SIL	10-20	10YR 6/8 brownish yellow SC							Negative
	2	0-30	10YR 5/4 yellowish brown SL	30-32	10YR 6/6 brownish yellow S	32-42	10YR 5/8 yellowish brown SC					Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil <u>Texture/Color)</u>	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	3	0-12	10YR 5/3 brown SIL	12-27	10YR 6/8 brownish yellow SC							Negative
31WA2069	1	0-30	10YR 5/4 yellowish brown SL	30-40	10YR 5/1 gray SC							Negative
	2	0-10	10YR 5/3 brown SIL	10-22	10YR 6/8 brownish yellow SC							Negative
	3	0-12	10YR 5/3 brown SIL	12-20	10YR 6/8 brownish yellow SC							Negative
31WA2070	1	0-16	10YR 3/4 dark yellowish brown SL	16-40	2.5Y 5/6 light olive brown S	40-62	10YR 6/8 brownish yellow C					Positive
	2	0-20	10YR 4/2 dark grayish brown SL	20-27	10YR 4/6 dark yellowish brown S	27-39	10YR 6/6 brownish yellow S					Negative
	3	0-13	10YR 4/4 dark yellowish brown SL	13-36	10YR 6/4 light yellowish brown S	36-48	7.5YR 5/6 strong brown SC					Negative
	4	0-16	10YR 3/4 dark yellowish brown SL	16-48	2.5Y 5/6 light olive brown S	48-61	10YR 6/8 brownish yellow S					Negative
	5	0-20	10YR 2/2 very dark brown SL	20-34	10YR 6/4 light yellowish brown S	34-51	10YR 6/6 brownish yellow SL					Positive
	6	0-11	10YR 3/4 dark yellowish brown SL	11-43	2.5Y 5/6 light olive brown S							Negative
	7	0-16	10YR 4/4 dark yellowish brown SC	16-41	10YR 6/6 brownish yellow S	41-54	10YR 5/8 yellowish brown SC					Negative
	8	0-19	10YR 4/3 brown SL	19-50	10YR 6/6 brownish yellow S	50-61	10YR 5/8 yellow brown SC					Positive
	9	0-26	10YR 2/2 very dark brown SL	26-40	10YR 6/4 light yellow brown S							Negative
	10	0-19	10YR 4/4 dark yellowish brown SL	19-68	10YR 6/6 brownish yellow S							Negative
	11	0-20	10YR 3/4 dark yellowish brown SL	20-39	10YR 5/6 yellowish brown SC	39-54	2.5Y 5/6 light olive brown SC					Negative
	12	0-24	2.5Y 3/2 very darl grayish brown SL	24-30	10YR 5/3 brown SL	30-49	10YR 6/6 brownish yellowish SICL					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil_ Texture/Color)	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	13	0-22	10YR 3/4 dark yellowish brown SL	22-33	10YR 5/4 yellowish brown S	33-46	10YR 5/6 yellowish brown S					Negative
	14	0-20	10YR 4/4 dark yellowish brown SL	20-30	rock impasse							Negative
	15	0-25	2.5Y 3/2 very darl grayish brown SL	25-44	10YR 5/4 yellowish brown SL							Negative
31WA2071	1	0-38	10YR 6/3 pale brown SL	38-72	10YR 6/6 brownish yellow SL	72-84	10YR 6/8 brownish yellow SC					Positive
	3	0-19	10YR 4/4 dark yellowish brown SL	19-89	2.5Y 6/6 olive yellow S	89-100	10YR 5/8 yellow brown SC					Positive
	4	0-25	10YR 4/4 dark yellowish brown SL	25-100	2.5Y 6/6 olive yellow S							Negative
	5	0-15	10YR 6/3 pale brown SIL	15-25	10YR 6/8 brownish yellow SC							Negative
	6	0-22	10YR 6/3 pale brown SL	22-57	10YR 6/6 brownish yellow SL	57-67	10YR 7/6 yellow SC					Positive
	7	0-20	10YR 4/4 dark yellowish brown SL	20-103	2.5Y 6/6 olive yellow S	103-104	10YR 5/8 yellowish brown SC					Negative
	8	0-22	10YR 4/4 dark yellowish brown SL	22-76	2.5Y 6/6 olive yellow S	76-86	10YR 5/8 yellowish brown SC					Negative
	9	0-22	10YR 6/3 pale brown SIL	22-34	10YR 6/8 brownish yellow SC							Negative
	11	0-13	10YR 6/3 pale brown SL	13-48	10YR 6/6 brownish yellow SL	48-58	10YR 6/4 light yellowish brown S	58+	root impasse			Negative
	13	0-41	10YR 6/3 pale brown SL	41-72	10YR 6/6 brownish yellow SL	72-83	10YR 6/8 brownish yellow SC					Negative
	14	0-30	10YR 6/3 pale brown SL	30-80	10YR 6/6 brownish yellow SL	80-90	10YR 6/8 brownish yellow SC					Negative
	15	0-24	10YR 4/4 dark yellowish brown SIL	24-40	10YR 5/4 yellowish brown S	40-	root impasse					Negative
	16	0-37	10YR 4/4 dark yellowish brown SL	37-89	2.5Y 6/6 olive yellow S	89-100	10YR 5/8 yellowish brown SC					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Z</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	17	0-17	10YR 4/4 dark yellowish brown SL	17-88	2.5Y 6/6 olive yellow S	88-98	10YR 5/8 yellowish brown SC					Positive
	19	0-25	10YR 4/4 dark yellowish brown SL	25-100	2.5Y 6/6 olive yellow S							Negative
	20	0-10	7.5Y 6/8 reddish yellow C w/ gravel									Negative
	21	0-33	10YR 6/3 pale brown SL	33-50	10YR 6/6 brownish yellow SL	50-60	10YR 6/8 brownish yellow SC					Negative
	22	0-21	10YR 6/3 pale brown SL	21-70	10YR 6/6 brownish yellow SL	70-81	10YR 6/8 brownish yellow SC					Negative
31WA2072	1	0-19	10YR 4/4 dark yellowish brown SIL	19-52	10YR 5/3 brown S	52-67	10YR 6/3 pale brown S, wet					Positive
	2	0-25	10YR 4/4 dark yellowish brown SIL	25-35	10YR 5/6 yellowish brown S	25-46	10YR 5/1 gray SC, hydric					Negative
	3	0-21	10YR 4/2 dark grayish brown SL	21-48	10YR 5/3 brown SL	48-61	10YR 6/3 pale brown SCL					Negative
	4	0-20	10YR 4/4 dark yellowish brown SIL	20-55	10YR 6/4 light yellowish brown S	55-67	10YR 5/8 yellowish brown C					Negative
	5	0-23	10YR 4/4 dark yellowish brown SICL	23-33	10YR 5/2 grayish brown SC mottled w/ 10YR 5/4 yellowish brown SC, hydric							Negative
	6	0-14	10YR 4/4 dark yellowish brown SL	14-45	10YR 6/4 light yellowish brown S	45-59	10YR 5/8 yellowish brown C					Negative
	7	0-17	10YR 4/3 brown SL	17-34	10YR 5/3 brown SL	34-60	10YR 6/3 pale brown SL					Negative
31WA2073	1	0-31	10YR 4/4 dark yellowish brown SL	31-55	10YR 6/4 light yellowish brown S	55-57	rock impasse					Positive
	2	1-26	10YR 4/4 dark yellowish brown SL mottled w/ 10YR 6/3 pale brown	26-36	5YR 5/1 gray clay							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	3	0-18	10YR 4/4 dark yellowish brown SL mottled/disturded	18-28	10YR 5/8 yellowish brown SCL							Negative
	4	0-30	10YR 4/3 brown SL	30-40	10YR 6/4 light yellowish brown S							Negative
	5	0-30	10YR 4/3 brown SL	30-45	10YR 6/4 light yellowish brown S							Negative
	6	0-28	10YR 4/3 brown SL	28-40	10YR 6/4 light yellowish brown SL							Negative
	7	0-30	10YR 4/4 dark yellowish brown SL	30-45	10YR 6/3 pale brown S	45-55	10YR 5/8 yellowish brown SC					Negative
	8	0-23	10YR 4/4 dark yellowish brown SL	23-41	10YR 6/4 light yellowish brown S	41-55	7.5YR 5/8 strong brown SC					Negative
	9	0-20	10YR 2/1 black SL	20-30	10YR 6/4 light yellowish brown SL							Negative
31WA2074&2 074**	1	0-19	10YR 2/1 black SL	19-32	10YR 6/6 brownish yellow SC							Positive
	2	0-13	10YR 2/1 black SL	13-26	10YR 6/4 light yellowish brown SL							Positive
	3	0-20	10YR 4/2 dark grayish brown SL	20-30	10YR 6/8 brownish yellow S							Negative
	4	0-20	10YR 2/1 black SL	20-30	10YR 6/4 light yellowish brown SL							Positive
	5	0-21	10YR 2/1 black SL	21-33	10YR 6/4 light yellowish brown SL							Positive
	6	0-14	10YR 4/3 brown SL	14-31	10YR 6/4 light yellowish brown SL							Negative
	7	0-22	10YR 4/3 brown SL	22-40	10YR 6/4 light yellowish brown SL							Negative
	8	0-21	10YR 4/3 brown SL	21-41	10YR 6/4 light yellowish brown SL							Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil	Zon	e 5 (Depth and Soil <u>Texture/Color)</u>	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	9	0-13	10YR 4/3 brown SL	13-30	10YR 6/6 brownish yellow SC							Negative
	10	0-20	10YR 4/3 brown SL	20-30	10YR 6/6 brownish yellow SC							Negative
	11	0-16	10YR 4/4 dark yellowish brown SIL	16-24	10YR 6/6 brownish yellow S	24-34	7.5YR 5/8 strong brown C					Negative
	12	0-19	10YR 4/4 dark yellowish brown SIL	19-30	10YR 6/6 brownish yellow S	30-38	7.5YR 5/8 strong brown C					Negative
	13	0-15	10YR 4/4 dark yellowish brown SIL	15-35	10YR 6/6 brownish yellow S	35-42	7.5YR 5/8 strong brown C					Negative
	14	0-20	10YR 5/4 yellowish brown SL	20-41	10YR 6/6 brownish yellow SCL							Negative
	15	0-17	10YR 5/4 yellowish brown SL	17-35	10YR 6/6 brownish yellow SC							Negative
	16	0-20	10YR 2/2 very dark brown L	20-27	10YR 2/1 black L	27-38	10YR 4/3 brown S	38-53	10YR 6/6 brownish yellow S	53-66	7.5YR 5/8 strong brown C	Negative
	17	0-22	10YR 2/2 very dark brown L	22-41	10YR 4/3 brown SL	41-60	10YR 6/4 light yellowish brown SCL					Negative
	18	0-18	10YR 4/3 brown SL	18-36	10YR 6/4 light yellowish brown SL							Positive
	19	0-20	10YR 4/3 brown SL	20-44	10YR 6/4 light yellowish brown SL							Negative
	20	0-15	10YR 4/3 brown SL	15-39	10YR 6/4 light yellowish brown SL							Negative
31WA2075	1	0-20	10YR 4/6 dark yellowish brown SL	20-32	7.5YR 5/6 strong brown SC	32-65	7.5YR 5/8 strong brown C					Positive
	2	0-72	10YR 6/8 brownish yellowish SL	72-73	rock impasse							Negative
	3	0-19	10YR 6/8 brownish yellowish SL	19-60	7.5YR 5/6 strong brown SCL							Negative
	4	0-20	10YR 4/4 dark yellowish brown SL	20-40	10YR 5/6 yellowish brown S							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil_ <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil <u>Texture/Color)</u>	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	5	0-45	10YR 6/8 brownish yellow SL	45-46	rock impasse							Negative
	6	0-24	10YR 4/4 dark yellowish brown SL	24-50	10YR 6/6 brownish yellow S	50-61	7.5YR 5/8 strong brown C					Negative
	7	0-28	10YR 4/4 dark yellowish brown SL	28-48	10YR 6/4 light yellowish brown SL	48-63	10YR 5/8 yellowish brown SC					Negative
	8	0-19	10YR 4/4 dark yellowish brown SL	19-34	10YR 5/6 yellowish brown S							Negative
	9	0-26	10YR 4/4 dark yellowish brown SL	26-49	10YR 6/6 brownish yellow S	49-62	7.5YR 5/8 strong brown SC					Negative
	10	0-11	10YR 4/4 dark yellowish brown SL	11-57	10YR 6/4 light yellowish brown SL	57-71	7.5YR 5/8 strong brown C					Negative
31WA2076	J1	0-16	10YR 4/3 brown SL	16-75	10YR 7/4 very pale brown S	75-80	10YR 8/6 yellow COS					Positive
	J2	0-14	10YR 4/3 brown SL	14-95	10YR 7/4 very pale brown S	95-100	10YR 8/6 yellow COS					Positive
	J3	0-15	10YR 4/3 brown SL	15-48	10YR 5/4 yellowish brown S	48-90	10YR 5/6 yellowish brown S	900-100	7.5YR 5/6 strong brown SC			Positive
	J4	0-20	10YR 4/3 brown SL	20-30	10YR 6/4 light yellowish brown S	30-35	10YR 5/8 yellowish brown SC					Negative
	J5	0-17	10YR 4/3 brown SL	17-50	10YR 6/4 light yellowish brown S	50-55	10YR 6/4 light yellowish brown S w/ gravel					Positive
31WA2077	1	0-11	10YR 4/3 brown SL	11-36	10YR 5/6 yellowish brown SL	36-55	10YR 6/8 brownish yellow SC					Positive
	2	0-16	10YR 4/3 brown SL	16-47	10YR 6/6 brownish yellow S	47-65	10YR 5/8 yellow brown SC					Negative
	3	0-17	10YR 6/3 pale brown SL	17-36	10YR 6/6 brownish yellow S	36-46	10YR 5/8 yellow brown SC					Negative
	4	0-19	10YR 5/3 brown SL	19-33	10YR 5/6 yellowish brown SL							Negative
	5	0-25	10YR 7/2 light gray S	25-40	10YR 6/4 light yellowish brown S	40-51	7.5YR 5/3 brown C					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil <u>Texture/Color)</u>	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	6	0-23	10YR 4/4 dark yellowish brown SL	23-38	10YR 5/6 yellowish brown SL							Negative
	7	0-8	10YR 4/3 brown SL	8-43	10YR 6/4 light yellowish brown S	43-65	10YR 5/8 yellowish brown SC w/ degrading rock					Negative
31WA2078	1	0-10	10YR 4/4 dark yellowish brown SL	10-50	10YR 6/4 light yellowish brown S	50-60	10YR 5/8 yellowish brown SC					Positive
	2	0-29	10YR 4/4 dark yellowish brown SL	29-40	10YR 5/6 yellowish brown SL							Negative
	3	0-20	10YR 4/3 brown SL	20-32	10YR 5/6 yellowish brown SL							Negative
	4	0-19	10YR 4/4 dark yellowish brown SL	19-30	10YR 5/6 yellowish brown SL							Negative
	5	0-11	10YR 4/4 dark yellowish brown CL	11-23	7.5YR 4/6 strong brown C							Negative
	6	0-14	10YR 4/4 dark yellowish brown SL	14-27	10YR 4/3 brown SL	27-50	10YR 5/2 grayish brown S	50-65	10YR 6/6 brownish yellow SC			Negative
	7	0-19	10YR 4/4 dark yellowish brown SL	19-30	10YR 5/6 yellowish brown SL							Negative
	8	0-22	10YR 4/4 dark yellowish brown SL	22-43	10YR 6/4 light yellowish brown S	43-54	10YR 5/8 yellowish brown SC					Negative
	9	0-25	10YR 4/3 brown SL	25-40	10YR 6/4 light yellowish brown S							Negative
31WA2079	1	0-13	10YR 4/4 dark yellowish brown SL	13-28	10YR 6/6 brownish yellow S w/ gravel	28-48	10YR 6/3 pale brown S w/ gravel	48-56	10YR 5/3 brown SC w/ gravel			Positive
	2	0-16	10YR 3/2 very dark grayish brown SIL	16-31	10YR 5/6 yellowish brown SC	31-46	10YR 6/8 brownish yellow C					Negative
	3	0-19	10YR 5/4 yellowish brown SIL	19-33	10YR 6/4 light yellowish brown S	33-100	10YR 7/3 very pale brown S					Negative
	4	0-30	10YR 4/3 brown SICL	30-40	10YR 6/4 light yellowish brown SIC							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	5	0-58	10YR 6/4 light yellowish brown COSL w/ cobbles	58-69	10YR 6/6 brownish yellow S							Positive
	6	0-34	10YR 4/4 dark yellowish brown SICL	34-45	Hydric							Negative
	7	0-32	10YR 4/4 dark yellowish brown SIL	32-42	10YR 6/2 light brownish gray SIC w/ redox -hydric							Negative
	8	0-30	10YR 5/4 yellowish brown SL	30-40	Hydric							Negative
	9	0-7	10YR 4/4 dark yellowish brown SL	7-20	10YR 6/6 brownish yellow S	20-37	Hydric					Negative
	10	0-28	10YR 6/6 brownish yellow S	28-39	10YR 5/6 yellowish brown S	39-48	10YR 6/3 pale brown S - wet					Negative
	11	0-12	10YR 4/4 dark yellowish brown SIL	12-45	10YR 5/6 yellowish brown S	45-62	10YR 4/6 dark yellowish brown SC					Negative
	12	0-11	10YR 4/4 dark yellowish brown SL	11-21	5YR 5/8 yellowish red SC							Negative
	13	0-6	10YR 5/4 yellowish brown SIL	6-22	10YR 6/6 brownish yellow SL	22-32	10YR 5/8 yellowish brown SC					Negative
	14	0-14	10YR 4/2 dark grayish brown L	14-40	10YR 6/4 light yellowish brown COSL w/ cobbles	40-50	10YR 6/6 brownish yellow SC					Positive
	15	0-14	10YR 4/2 dark grayish brown SL	14-38	10YR 6/4 light yellowish brown COSL w/ cobbles	38-50	10YR 6/6 brownish yellow SC					Negative
	16	0-21	10YR 4/4 dark yellowish brown SIL	21-55	10YR 5/6 yellowish brown S	55-67	10YR 4/6 dark yellowish brown SC					Negative
	17	0-9	10YR 4/3 brown SL	9-28	10YR 6/4 light yellowish brown S	28-38	10YR 5/8 yellowish brown SC					Negative
	18	0-44	10YR 6/4 light yellowish brown COSL w/ cobbles	44-55	10YR 6/6 brownish yellow SL							Negative
31WA663&66 3**	1	0-14	10YR 4/3 brown SL	14-30	10YR 5/4 yellowish brown S							Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil_ Texture/Color)	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	2	0-17	10YR 3/2 very dark grayish brown SL	17-30	10YR 6/4 S							Positive
	3	0-10	10YR 4/3 brown SL	10-60	10YR 5/3 brown sand	60-66	10YR 6/4 light yellowish brown SC					Positive
	6	0-10	10YR 4/3 brown SL	10-52	10YR 5/6 yellowish brown S	52-64	7.5YR 5/6 strong brown SC					Positive
	8	0-17	10YR 4/3 brown SL	17-75	10YR 5/6 yellowish brown SL	75-85	7.5YR 5/6 strong brown SC					Negative
	14	0-16	10YR 4/3 brown SL	16-45	10YR 6/6 brownish yellow S							Positive
	19	0-11	10YR 3/3 dark brown SL	11-45	10YR 6/6 brownish yellow S	45-51	10YR 5/8 yellowish brown SC					Negative
	20	0-12	10YR 3/3 dark brown SL	12-39	10YR 6/6 brownish yellow S	39-46	10YR 5/8 yellowish brown SC					Negative
	22	0-9	10YR 5/3 brown SL	9-73	10YR 6/6 brownish yellow S	73-78	10YR 5/8 yellowish brown SC					Negative
	23	0-13	10YR 4/3 brown SL	13-27	10YR 4/3 brown S	27-44	7.5YR 5/8 strong brown C					Positive
	25	0-9	10YR 4/3 brown SL	9-20	10YR 5/6 yellowish brown S	20-83	10YR 5/8 yellowish brown S					Positive
	35	0-16	10YR 4/3 brown SL	16-30	10YR 6/4 light yellowish brown SL							Positive
	37	0-18	10YR 5/3 brown SL	18-95	10YR 6/6 brownish yellow S							Negative
	49	0-23	10YR 4/4 dark yellowish brown SL	23-46	10YR 6/4 light yellowish brown SL							Positive
	51	0-14	10YR 4/4 dark yellowish brown SL	14-82	10YR 6/4 light yellowish brown S	82-92	10YR 5/8 yellowish brown SC					Negative
	54	0-11	10YR 4/4 dark yellowish brown SL	11-26	10YR 4/6 dark yellowish brown S	26-90	10YR 6/6 brownish yellow S					Positive
	55	0-20	10YR 4/2 dark grayish brown SL	20-50	10YR 6/4 light yellowish brown S	50-59	10YR 6/4 light yellowish brown S w/ decaying sandstone					Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	57	0-12	10YR 4/4 dark yellowish brown SL	12-69	10YR 4/3 brown SL							Positive
	59	0-5	10YR 4/4 dark yellowish brown SL	5-53	10YR 5/6 yellowish brown S	53-76	10YR 5/4 yellowish brown S					Positive
	65	0-10	10YR 4/4 dark yellowish brown SL	10-56	10YR 5/6 yellowish brown S	56-71	7.5YR 5/8 strong brown C					Negative
31WA2080	1	0-15	10YR 3/3 dark brown SIC	15-30	10YR 5/3 brown C	30-40	10YR 7/2 light gray C - hydric					Positive
	5	0-14	10YR 3/3 dark brown SIC	14-30	10YR 5/8 yellowish brown C mottled w/ 2.5Y 5/4 light olive brown							Negative
	6	0-12	10YR 5/3 brown SICL	12-27	10YR 7/2 light gray C - hydric							Positive
	7	0-10	10YR 3/2 very dark grayish brown SIL	10-26	2.5Y 7/4 pale yellow I w/ traces of C	26-36	2.5Y 7/4 pale yellow SIC - hydric					Negative
	8	0-8	10YR 4/4 dark yellowish brown SIL	8-41	10YR 6/2 light brownish gray -hydric							Negative
	9	0-7	10YR 2/2 very dark brown SIL	7-20	2.5Y 5/2 grayish brown mottled w/ 10YR 5/8 yellow brown C -hydric							Negative
	10	0-7	10YR 5/3 brown SIL	7-14	10YR 7/2 light gray SIC mottled w/ 10YR 7/6 yellow C	14-33	10YR 6/3 pale brown SIC mottled w/ 2.5YR 4/8 red SIC -hydric					Negative
	11	0-10	Hydric									Negative
	12	0-12	10YR 3/3 dark brown SIC	14-30	10YR 5/8 yellow brown SIC mottled w/ 2.5Y 5/4 light olive brown C							Negative
	13	0-24	10YR 5/3 brown SIL	24-34	2.5Y 5/2 grayish brown SIC mottled w/ 10YR 5/8 yellow brown C -hydric							Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	14	0-15	Hydric									Negative
	15	0-6	10YR 5/3 brown SIL	6-24	2.5Y 5/2 grayish brown SIC mottled w/ 10YR 5/8 yellow brown C -hydric							Negative
31WA2081	J-1	0-32	10YR 6/3 pale brown SL	32-47	10YR 5/8 yellow brown C							Negative
	J-2	0-25	2.5Y 6/4 light yellowish brown SL	25-38	2.5YR 6/6 light red SCL							Positive
	J-3	0-30	10YR 5/4 yellowish brown SL	30-41	10YR 5/6 yellowishbrown S	41-52	10YR 5/8 yellowish brown C					Negative
	J-4	0-42	10YR 6/3 pale brown SL	42-52	10YR 5/8 yellowish brown C							Negative
31WA2082&2 082**	J-1	0-14	10YR 5/3 brown SL	14-79	10YR 6/4 light yellowish brown S							Positive
	X-9	0-26	10YR 4/4 dark yellowish brown SL	26-54	10YR 6/6 brownish yellow S	54-72	10YR 5/8 yellowish brown C					Positive
	Y-7	0-17	10YR 4/4 dark yellowish brown SL	17-84	10YR 6/6 brownish yellow S	84-89	10YR 5/8 yellowish brown C					Positive
	AA-12	0-18	10YR 4/3 brown S	18-60	10YR 5/6 yellowish brown S	60-70	10YR 5/8 yellowish brown SC					Positive
	AA-13	0-17	10YR 4/3 brown S	17-50	10YR 5/6 yellowish brown S	50-60	10YR 5/8 yellowish brown SC					Positive
	BB-3	0-18	10YR 5/3 brown SL	18-42	10YR 6/6 brownish yellow S	42-48	10YR 5/8 yellowish brown C					Positive
	BB-11	0-23	10Y4 4/4 dark yellowish brow SL	23-63	10YR 6/6 brownish yellow S							Positive
	BB-12	0-15	10YR 4/3 brown S	15-40	10YR 5/6 yellow brown S	40-52	10YR 5/8 yellowish brown SC					Positive
	DD-5	0-24	10Y4 4/4 dark yellowish brow SL	24-61	10YR 6/6 brownish yellow S	61-73	10YR 5/8 yellowish brown SC					Positive
	EE-4	0-10	2.5Y 4/2 dark grayish brown SL	10-40	2.5Y 7/6 yellow S	40-55	2.5Y 6/6 olive yellow SC					Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	EE-5	0-16	2.5Y 4/2 dark grayish brown SL	16-40	2.5Y 7/4 pale yellow COS	40-60	2.5Y 6/6 olive yellow SC					Positive
	EE-7	0-20	2.5Y 4/2 dark grayish brown SL	20-84	2.5Y 7/4 pale yellow SL	84-96	2.5Y 6/6 olive yellow SC					Positive
	FF-2	0-20	2.5Y 4/2 dark grayish brown SL	20-73	2.5Y 7/2 light gray S	73-90	2.5Y 6/6 olive yellow SCL					Positive
	FF-4	0-17	10YR 4/4 dark yellowish brown SL	17-48	10YR 4/6 dark yellowish brown S							Positive
	FF-8	0-17	10YR 4/4 dark yellowish brown SL	17-48	10YR 6/6 brownish yellow S	48-3	10YR 5/8 yellowish brown SC					Negative
	FF-9	0-22	10YR 4/4 dark yellowish brown SL	22-32	10YR 6/4 light yellowishish brown S	32-43	10YR 5/8 yellowish brown C					Positive
31WA2083	1	0-19	10YR 5/8 yellowish brown SL	19-30	10YR 7/4 very pale brown SL							Positive
	2	0-17	10YR 4/4 dark yellowish brown SL	17-31	10YR 5/6 yellowish brown S	31-41	10YR 5/8 yellowish brown SC					Negative
	3	0-17	10YR 4/4 dark yellowish brown SL	17-54	10YR 6/6 brownish yellow S	54-64	10YR 5/8 yellowish brown SC					Negative
	4	0-13	10YR 4/4 dark yellowish brown SL	13-48	10YR 4/2 dark grayish brown S	48-62	10YR 5/8 yellowish brown SC					Negative
	5	0-11	10YR 4/4 dark yellowish brown SL	11-32	10YR 6/6 brownish yellow S							Negative
	6	0-20	10YR 5/3 brown COSL w/ gravel and cobbles	20-40	10YR 5/8 yellowish brown SIC							Negative
	7	0-18	10YR 5/3 brown COSL w/ gravel and cobbles	18-25	10YR 4/6 dark yellowish brown S w/ gravel	25-31	10YR 4/4 dark yellowish brown SL					Negative
	8	0-17	10YR 4/4 dark yellowish brown COSL w/ gravel	17-27	7.5 YR 5/8 strong brown C w/ degrading rock and gravel							Positive
	9	0-15	10YR 4/4 dark yellowish brown SL	15-	rock impasse							Negative
31WA2084	1	0-19	10YR 5/8 yellowish brown SL	19-30	10 YR 6/3 pale brown SL							Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	2	0-15	10 YR 2/2 very brown SL	15-35	10YR 6/4 light yellow brown S w/ rocks							Negative
	3	0-12	10YR 5/4 yellow brown SL	12-30	10YR 7/4 very pale brown SL							Negative
	4	0-18	10YR 4/4 dark yellow brown SL	18-45	10YR 4/2 dark grayish brown S	45-63	10YR 5/8 yellowish brown SC					Negative
	5	0-30	10YR 3/3 dark brown SL	30-50	2.5Y 5/2 light olive brown SL							Negative
	6	0-30	10YR 4/2 dark grayish brown SL	30-50	10YR 7/6 yellow S	50-58	10YR 5/8 yellowish brown SC					Negative
	7	0-17	10YR 4/4 dark yellowish brown SL	17-54	10YR 6/6 brownish yellow S	54-64	10YR 5/8 yellowish brown SC					Negative
	8	0-12	10YR 5/3 brown SL w/ gravel	12-19	10YR 6/2 light brownish gray S w/ gravel	19+	degrading rock					Negative
	9	0-24	10YR 4/4 dark yellowish brown SL	24-59	10YR 6/4 light yellowish brown S	59-73	10YR 5/8 yellowish brown SC					Negative
31WA2085	1	0-25	10YR 5/3 brown SL w/ gravel	25-85	10YR 6/3 pale brown S	85-90	7.5YR 6/6 reddish yellow SC					Positive
	6	0-24	10YR 5/3 brown SL w/ gravel	24-90	10YR 6/3 pale brown S	90-100	7.5YR 6/6 reddish yellow SC					Positive
	8	0-17	10YR 4/4 dark yellowish brown SL	17-58	10YR 6/4 light yellowishish brown S	58-68	7.5YR 6/8 reddish yellow SC					Positive
	9	0-28	10YR 4/3 brown SL	28-98	7.5YR 6/4 light brown S	98-108	7.5YR 6/8 reddish yellow SC					Positive
	11	0-18	10YR 5/3 brown SL w/ gravel	18-90	10YR 6/3 pale brown S	90-96	7.5YR 6/6 reddish yellow SC					Positive
	12	0-19	10YR 5/3 brown SL w/ gravel	18-91	10YR 6/3 pale brown S	90-95	7.5YR 6/6 reddish yellow SC					Positive
	15	0-12	10YR 4/2 dark grayish brown SL	12-100	10YR 6/4 light yellowish brown S							Positive
	21	0-28	10YR 4/3 brown SL	28-108	10YR 6/4 light yellow brown S	108-118	10YR 6/6 brownish yellow SC					Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil_ <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	23	0-24	10YR 4/3 brown SL	24-53	2.5YR 6/6 light red S	53-63	7.5YR 6/8 reddish yellow SC					Positive
	26	0-20	10YR 5/3 brown SL	20-80	10YR 6/4 light yellowish brown S	80-90	10YR 6/8 brownish yellow SC					Positive
	31	0-12	10YR 5/3 brown SL	12-55	10YR 6/4 light yellowish brown S	55-62	10YR 6/8 brownish yellow SC					Positive
	40	0-26	10YR 4/2 dark grayish brown SL	26-76	2.5YR 6/6 light red S							Positive
	42	0-35	10YR 4/2 dark grayish brown SL	35-89	10YR 6/4 light yellowish brown S	89-102	10YR 5/8 yellowish brown SC					Positive
	45	0-7	10YR 4/2 dark grayish brown SL	7-30	10YR 6/4 light yellowish brown S	30-40	10YR 5/8 yellowish brown SC					Positive
	51	0-17	10YR 5/3 brown SL	17-22	10YR 6/4 light yellowish brown S	22-30	5YR 6/8 reddish yellow C					Positive
	57	0-8	10YR 4/2 dark grayish brown SL	8-32	10YR 5/4 yellowish brown S	32-44	10YR 6/4 light yellowish brown S	44-54	10YR 5/6 yellowish brown SC			Positive
	68	0-19	10YR 6/6 brownish yellow S	19-65	10YR 4/6 dark yellowish brown S		10YR 5/8 yellowish brown SC					Positive
	69	0-16	10YR 4/4 dark yellowish brown S	16-100	2.5Y 6/4 light yellowish brown S							Positive
	70	0-20	10YR 4/4 dark yellowish brown SL	20-100	2.5YR 6/6 light red S							Positive
	71	0-16	10YR 4/3 brown SL	16-90	10YR 8/4 very pale brown S	90-95	10YR 6/8 brownish yellow SC					Positive
	72	0-17	10YR 4/4 dark yellowish brown S	17-42	10YR 4/6 dark yellowish brown S	42-47	10YR 5/8 yellowish brown SC					Positive
31WA2086	1	0-33	10YR 5/4 yellowish brown SL	33-46	10YR 6/4 light yellow brown S	46-56	10YR 6/4 light yellow brown S w/ concretions					Positive
	4	0-24	10YR 5/4 yellowish brown SL	24-29	10YR 6/4 light yellowish brown S	29-39	10YR 5/6 yellowish brown SC					Negative
	5	0-25	10YR 5/4 yellowish brown SL	25-50	10YR 6/4 light yellowish brown S	50-60	10YR 5/6 yellowish brown SC					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 3 (Depth and Soil <u>Texture/Color)</u>	<u>Z</u> (one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	6	0-21	10YR 5/4 yellowish brown SL	21-33	10YR 6/4 light yellowish brown S	33-43	10YR 5/6 yellowish brown SC					Positive
	7	0-11	10YR 5/6 yellow brown S	11-22	10YR 4/6 dark yellowish brown w/ concretions	22-40	10YR 6/6/ brownish yellow S w/ concretions - disturbed					Negative
	8	0-20	Mixed fill (10YR 6/6 brownish yellow CL w/ 10YR 5/8 yellow brown CL)	20-30	10YR 4/4 dark yellowish brown SL	30-40	Mixed deposits (10YR 5/4 yellow brown SL w/ 10YR 5/8 yellow brown CL					Negative
	9	0-33	10YR 5/4 yellowish brown SL	33-42	10YR 6/4 light yellowish brown S	42-52	10YR 5/8 yellowish brown SC					Positive
	10	0-20	7.5YR 4/4 brown SL mottled w/ 10YR 5/8 yellow brown SC	20-25	10YR 6/3 pale brown S	25-35	10YR 5/6 yellowish brown SC					Negative
	11	0-17	10YR 4/4 dark yellowish brown S	17-97	10YR 5/6 yellowish brown S							Negative
	12	0-39	10YR 5/4 yellowish brown SL	39-42	10YR 7/4 very pale brown S	42-52	10YR 5/6 yellowish brown SC					Negative
	17	0-25	10YR 4/4 dark yellowish brown S	25-100	10YR 5/6 yellowish brown S	100-105	10YR 5/6 yellowish brown S mottled w/ 7.5YR 5/8 strong brown C					Positive
31WA2087	1	0-18	10YR 2/2 very dark brown SL	18-100	2.5Y light yellowish brown S							Positive
	2	0-27	10YR 4/4 dark yellowish brown S	27-100	10YR 5/6 yellowish brown S							Positive
	4	0-14	10YR 4/2 dark grayissh brown SL	14-95	2.5Y 6/4 light yellowish brown S	95-105	10YR 5/8 yellowish brown SC					Negative
	5	0-30	10YR 3/3 dark brown SL	30-100	2.5Y 7/4 pale yellow S							Positive
	7	0-20	10YR 3/3 dark brown SL	20-103	10YR 5/6 yellow brown S							Positive
	10	0-24	10YR 4/3 brown SL	24-60	10YR 6/6 brownish yellow S	60-70	10YR 6/8 brownish yellow SC					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	14	0-21	10YR 4/3 brown SL	21-100	10YR 6/6 brownish yellow S							Positive
	17	0-25	10YR 4/4 dark yellowish brown S	25-95	10YR 5/6 yellowish brown S	95-105	10YR 5/6 yellowish brown S mottled w/ 7.5YR 5/8 strong brown C					Positive
	18	0-17	10YR 4/4 dark yellowish brown S	17-34	10YR 5/6 yellowish brown S	34-57	10YR 5/6 yellowish brown S mottled w/ 7.5YR 5/8 strong brown C					Negative
	19	0-25	10YR 4/3 brown SL	25-90	10YR 6/6/ brownish yellow S	90-100	10YR 6/8 brownish yellow SC					Positive
	50	0-25	10YR 4/3 brown SIL	25-80	10YR 5/6 yellow brown S	80-94	10YR 6/8 brownish yellow SC					Positive
	53	0-28	10YR 5/3 brown SL	28-100	10YR 6/6/ brownish yellow S	100-110	10YR 6/8 brownish yellow SC					Positive
	54	0-20	10YR 4/3 brown SL	20-56	10YR 5/6 yellowish brown S	56-70	10YR 6/8 brownish yellow SC					Positive
	58	0-50	10YR 4/3 brown SL	50-60	10YR 6/8 brownish yellow SC							Positive
	59	0-22	10YR 5/3 brown SL	22-102	10YR 6/6/ brownish yellow S	102-112	10YR 6/8 brownish yellow SC					Positive
	63	0-30	10YR 4/3 brown SL	30-77	10YR 5/6 yellow brown S	77-90	10YR 6/8 brownish yellow SC					Positive
	62	0-22	10YR 4/3 brown SL	22-100	10YR 5/6 yellowish brown S	100-	10YR 6/8 brownish yellow SC					Positive
	74	0-21	10YR 5/4 yellowish brown SL	21-72	10YR 6/4 light yellowish brown S	72-82	10YR 5/6 yellowish brown SC					Positive
	82	0-25	10YR 5/3 brown SL	25-86	10YR 6/6/ brownish yellow S	86-96	10YR 6/8 brownish yellow SC					Positive
	85	0-25	10YR 5/3 brown S	25-80	Fill (10YR 6/4 light yellowish brown S w/ 10YR 5/3 brown S)	80-90	10YR 6/4 light yellowish brown S	90-100	10YR 6/6 brownish yellow SC mottled w/ 7.5YR 5/8 strong brown SC			Positive
31WA2088	1	0-10	10YR 4/3 brown SL	10-66	10YR 6/6/ brownish yellow S	66-75	10YR 8/6 yellow SC					Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil <u>Texture/Color)</u>	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	9	0-13	10YR 4/3 brown SL	13-80	10YR 6/6/ brownish yellow S	80-85	10YR 8/6 yellow SC					Negative
	10	0-9	10YR 4/2 dark grayish brown SL	9-20	10YR 5/3 brown SL	20-40	10YR 6/4 light yellowish brown S	40-50	10YR 5/6 yellowish brown SC			Positive
	12	0-10	10YR 4/2 dark grayish brown SL	10-23	10YR 6/4 light yellowish brown S	23-33	10YR 5/6 yellowish brown SC					Negative
	13	0-9	10YR 4/3 brown SL	9-39	10YR 6/6/ brownish yellow S	39-45	10YR 8/6 yellow SC					Negative
	15	0-8	10YR 4/3 brown SL	8-55	10YR 6/6/ brownish yellow S w/ gravel	55-75	10YR 8/6 yellow SC					Negative
31WA2089	1	0-8	10YR 4/2 dark grayish brown SL	8-75	10YR 8/4 very pale brown S	75-82	10YR 8/6 yellow SC					Positive
	4	0-33	10YR 5/3 brown SL	33-37	10YR 6/6/ brownish yellow S	37-47	10YR 6/8 brownish yellow SC					Positive
	6	0-28	10YR 4/3 brown SL	28-40	2.5Y 6/6 olive yellow S	40-50	10YR 5/8 yellowish brown SC					Negative
	7	0-14	10YR 4/3 brown SL	14-35	10YR 6/4 light yellowish brown S	35-45	10YR 5/8 yellowish brown SC motlled 2.5YR 4/8 red SC					Negative
	8	0-25	10YR 4/3 brown SC	25-35	7.5YR 5/8 strong brown C							Negative
	9	0-10	7.5YR 4/2 brown SL	10-70	10YR 5/4 yellowish brown S	70-80	10YR 5/6 yellowish brown SC					Negative
	10	0-15	10YR 3/3 dark brown SL	15-25	10YR 4/6 dark yellowish brown S	25-60	10YR 5/6 yellowish brown SC	60-70	10YR 6/8 brownish yellow SC			Negative
	11	0-13	10YR 4/4 dark yellowish brown SL	13-26	10YR 5/6 yellowish brown S	26-40	5YR 5/8 yellowish red C					Positive
	12	0-40	10YR 4/3 brown SL	40-95	2.5Y 6/6 olive yellow S	95-105	10YR 5/8 yellowish brown SC					Positive
	13	0-10	7.5YR 4/2 brown SL	10-21	10YR 6/8 brownish yellow S	21-31	5YR 5/8 red SC					Negative
	14	0-10	10YR 3/3 dark brown SIL	10-19	2.5Y 5/4 light olive brown S	19-38	5YR 5/8 red C					Negative

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil	<u>Zo</u>	ne 3 (Depth and Soil	<u>Zo</u>	one 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	15	0-15	10YR 3/3 dark brown SIL	15-30	5YR 5/8 red C							Positive
	16	0-17	10YR 4/3 brown SL	17-45	2.5Y 6/6 olive yellow S	45-55	10YR 5/8 yellowish brown SC					Negative
	17	0-12	7.5YR 4/2 brown SL	12-30	10YR 5/3 brown S	30-40	7.5YR 6/8 reddish yellow SC					Negative
	18	0-36	10YR 4/3 brown SL	36-43	2.5Y 6/6 olive yellow S	43-53	10YR 5/8 yellowish brown SC					Negative
	19	0-12	10YR 3/3 dark brown SIL	12-20	10YR 5/6 yellowish brown SC	20-30	10YR 6/8 brownish yellow C					Negative
	20	0-26	10YR 4/3 brown SL	26-45	2.5Y 6/6 olive yellow S	45-53	10YR 5/8 yellowish brown SC					Negative
31WA2090	1	0-8	10YR 4/2 dark grayish brown SL	8-21	10YR 5/3 brown S	21-31	7.5YR 5/8 strong brown SC					Positive
	2	0-7	5YR 5/2 reddish gray SICL	7-18	7.5YR 4/4 brown LS mottled w/ 5YR 5/8 red SCL	18-28	10R 5/8 red C					Negative
	3	0-25	10YR 3/2 very dark grayish brown SL	25-45	10YR 6/4 light yellowish brown S	45-55	10YR 5/6 yellowish brown SC					Negative
	4	0-10	10YR 3/3 dark brown SIL	10-25	10YR 7/6 yellowish SL							Negative
31WA2091	1	0-27	10YR 4/3 brown SL	27-90	10YR 6/6/ brownish yellow S	90-100	10YR 6/8 brownish yellow SC					Positive
	2	0-33	10YR 4/3 brown SL	33-40	10YR 6/4 light yellowish brown S	40-50	10YR 5/6 yellowish brown SC					Negative
	4	0-19	10YR 4/3 brown SL	19-90	10YR 6/6/ brownish yellow S	90-100	10R 5/8 red SC					Negative
	7	0-24	10YR 4/3 brown SL	24-75	10YR 6/4 light yellowish brown S	75-85	10YR 5/6 yellowish brown SC					Negative
31WA2092	1	0-12	10YR 4/4 dark yellowish brown SL	12-72	10YR 5/6 yellowish brown S	72-83	10YR 5/3 brown SC					Positive

<u>Site</u>	<u>ST #</u>	<u>Zo</u>	ne 1 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 2 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 3 (Depth and Soil <u>Texture/Color)</u>	<u>Zo</u>	ne 4 (Depth and Soil <u>Texture/Color)</u>	Zon	e 5 (Depth and Soil_ Texture/Color)	<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	2	0-13	10YR 3/3 dark brown SL	13-30	10YR 7/6 yellowish SL							Negative
	3	0-16	10YR 4/4 dark yellowish brown SL	16-47	10YR 5/6 yellowish brown S	47-60	10YR 5/8 yellowish brown SC					Negative
	4	0-18	10YR 4/4 dark yellowish brown SL	18-72	10YR 5/6 yellowish brown S	72-82	7.5YR 5/8 strong brown SC					Negative
	5	0-18	10YR 4/4 dark yellowish brown SL	18-46	10YR 6/4 light yellowish brown S	46-53	10YR 5/8 yellowish brown SC					Negative
	6	0-24	2.5Y 3/2 very darl grayish brown SL	24-40	10YR 6/8 brownish yellow S							Negative
	7	0-14	2.5Y 4/2 dark grayish brown SL	14-35	10YR 7/4 very pale brown SL							Positive
	8	0-8	2.5Y 7/2 light gray S	8-20	10YR 4/3 brown SL	20-100	10YR 6/6 brownish yellow S	100-110	10YR 5/8 yellowish brown SC			Negative
	9	0-17	10YR 4/4 dark yellowishish brown SL	17-74	10YR 5/6 yellowish brown S	74-85	7.5YR 5/8 strong brown SC					Negative
	10	0-14	2.5Y 4/2 dark grayish brown SL	14-35	10YR 7/4 very pale brown SL							Negative
	11	0-19	10YR 4/4 dark yellowish brown SL	19-49	10YR 6/6 brownish yellow S	49-68	10YR 5/8 yellowish brown SC					Negative
	12	0-24	10YR 4/1 dark gray SL	24-40	5Y 7/4 pale yellow S							Positive
	13	0-23	10YR 4/4 dark yellowish brown SL	23-80	10YR 5/6 yellowish brown S	80-93	10YR 5/8 yellowish brown SC					Positive
	14	0-16	10YR 4/4 dark yellowish brown SL	16-40	10YR 5/6 yellowish brown S	40-53	10YR 5/8 yellowish brown SC					Negative
	15	0-17	10YR 4/4 dark yellowish brown SL	17-36	10YR 5/6 yellowish brown S	36-46	10YR 5/8 yellowish brown SC					Negative
	16	0-22	10YR 4/2 dark grayish brown SL	22-42	2.5Y 7/6 yellow S							Negative
	17	0-21	10YR 4/4 dark yellowish brown SL	21-49	10YR 6/4 light yellowish brown S	49-62	10YR 6/6 brownish yellow S					Negative

<u>Site</u>	<u>ST #</u>	Zone 1 (Depth and Soil <u>Texture/Color)</u>		Zone 2 (Depth and Soil <u>Texture/Color)</u>		Zone 3 (Depth and Soil <u>Texture/Color)</u>		Zone 4 (Depth and Soil <u>Texture/Color)</u>		Zone 5 (Depth and Soil <u>Texture/Color)</u>		<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	18	0-18	10YR 4/4 dark yellowish brown SL	18-32	10YR 5/6 yellowish brown S	32-43	10YR 5/8 yellowish brown SC					Negative
	19	0-17	10YR 4/4 dark yellowish brown SL	17-21	10YR 6/6 brownish yellow S	21-32	10YR 5/8 yellowish brown SC					Negative
	20	0-17	10YR 4/4 dark yellowish brown SL	17-79	10YR 5/6 yellowish brown S	79-89	7.5YR 5/8 strong brown SC					Negative
31WA2093	J-1	0-26	7.5YR 6/6 reddish yellow SL	26-30	7.5YR 7/6 reddish yellow SL	30-45	10YR 5/6 yellowish brown S	45-60	10YR 6/6 brownish yellow SC			Positive
	J-2	0-12	10YR 4/4 dark yellowish brown SIL	12-21	compact fill							Negative
	J-3	0-46	10YR 4/4 dark yellowish brown SIL	46-62	10YR 5/6 yellowish brown S							Negative
31WA2094	1	0-18	10YR 5/4 yellowish brown SL	18-31	10YR 5/2 graysih brown SL							Positive
	2	0-18	2.5Y 4/2 dark grayish brown SL	18-32	2.5Y 7/4 pale yellow S	32-50	5Y 7/4 pale yellow S					Negative
	3	0-15	Hydric									Negative
	4	0-24	10YR 4/4 dark yellowish brown SL	24-50	10YR 6/6 brownish yellow S	50-61	10YR 5/8 yellowish brown SC					Negative
	5	0-20	10YR 4/4 dark yellowish brown SL	20-40	10YR 6/6 brownish yellow S	40-50	10YR 5/8 yellowish brown SC					Positive
	6	0-25	Hydric									Negative
	7	0-14	10YR 4/2 dark grayish brown SL	14-46	10YR 5/6 yellowish brown S	46-56	10YR 5/8 yellowish brown SC					Negative
	8	0-9	10YR 4/4 dark yellowish brown SL	9-58	10YR 6/4 light yellowish brown S	58-69	10YR 5/8 yellowish brown SC					Positive
	9	0-20	10YR 5/4 yellowish brown SL	20-33	10YR 7/6 yellow SL							Positive
	10	0-10	10YR 4/4 dark yellowish brown SL	10-20	10YR 6/4 light yellowish brown S							Negative

<u>Site</u>	<u>ST #</u>	Zone 1 (Depth and Soil <u>Texture/Color)</u>		Zone 2 (Depth and Soil <u>Texture/Color)</u>		Zone 3 (Depth and Soil <u>Texture/Color)</u>		Zone 4 (Depth and Soil <u>Texture/Color)</u>		Zone 5 (Depth and Soil <u>Texture/Color)</u>		<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	11	0-13	10YR 4/2 dark grayish brown SL w/ gravel	13-45	10YR 6/6 brownish yellow S w/ gravel	45-55	10YR 5/8 yellowish brown SC w/ gravel					Negative
	12	0-11	10YR 6/3 pale brown SL	11-24	10YR 6/2 light grayish brown SC	24-38	10YR 5/8 yellowish brown SC w/ 10YR 6/2 light brownish gray C					Negative
	13	0-20	10YR 4/4 dark yellowish brown SL	20-30	Hydric							Negative
	14	0-15	10YR 4/2 dark grayish brown SL	15-40	2.5Y 4/4 olive brown S mottled w/ 2.5Y 6/6 olive yellow S							Negative
	15	0-13	10YR 6/2 light brownish gray SL	13-29	10YR 6/6 brownish yellow S mottled w/ 10YR 5/6 yellowish brown S, hydric	29+	Hydric					Positive
	16	0-14	10YR 5/4 yellowish brown SL	14-25	10YR 7/6 yellow SL							Negative
	17	0-19	10YR 4/4 dark yellowish brown SL	19-26	10YR 6/4 light yellowish brown S	26-37	10YR 5/8 yellowish brown SC					Negative
	18	0-25	Hydric									Negative
	19	0-10	10YR 4/2 dark grayish brown SL	10-25	10YR 6/3 pale brown S							Negative
	20	0-10	10YR 5/2 grayish brown S	10-25	Hydric							Negative
31WA1348	1	0-18	10YR 5/4 yellowish brown SL	18-30	2.5Y 7/6 yellow S	30+	10YR 5/8 yellowish brown SC					Positive
	2	0-15	10YR 4/4 dark yellowish brown SL	15-62	10YR 6/4 light yellowish brown S	62-75	10YR 5/8 yellowish brown SC					Negative
	3	0-12	10YR 4/4 dark yellowish brown SL	12-36	10YR 6/4 light yellowish brown S	36+	rock impasse					Negative
	4	0-13	10YR 4/2 dark grayish brown SL	13-60	10YR 5/6 yellowish brown SC							Negative

<u>Site</u>	<u>ST #</u>	Zone 1 (Depth and Soil <u>Texture/Color)</u>		Zone 2 (Depth and Soil <u>Texture/Color)</u>		Zone 3 (Depth and Soil <u>Texture/Color)</u>		Zone 4 (Depth and Soil <u>Texture/Color)</u>		Zone 5 (Depth and Soil <u>Texture/Color)</u>		<u>Positive or</u> <u>Negative for</u> <u>Cultural</u> <u>Materials</u>
	5	0-15	10YR 3/4 dark yellowish brown SL	15-30	10YR 5/6 yellowish brown SL							Negative
	6	0-15	10YR 4/4 dark yellowish brown SL	15-62	10YR 6/4 light yellowish brown S	62-75	10YR 5/8 yellowish brown SC					Negative
	7	0-18	10YR 5/4 yellowish brown SL	18-35	2.5Y 7/6 yellowish S	35-40	2.5YR 8/4 yellowish S					Negative
	8	0-13	10YR 4/2 dark grayish brown SL	13-30	10YR 5/6 yellowish brown SC							Negative
	9	0-18	10YR 3/4 dark yellowish brown SL	19-35	10YR 5/6 yellowish brown SC							Negative
31WA493	J-1	0-11	10YR 4/4 dark yellowish brown SL	11-14	10YR 4/2 dark grayish brown SL	14-24	10YR 6/6 brownish yellow S	24-35	7.5YR 5/8 strong brown SC			Negative
	J-2	0-11	10YR 3/4 dark yellowish brown SL	11-27	10YR 4/6 dark yellowish brown S	27-37	7.5YR 5/8 strong brown SC					Positive
	J-3	0-15	10YR 4/4 dark yellowish brown SL	15-28	10YR 6/4 light yellowish brown S							Negative
	J-4	0-30	10YR 5/4 yellowish brown SCL mottled w/ 7.5YR 5/8 brown SCL -disturbed									Negative
	J-5	0-12	10YR 4/4 dark yellowish brown SL	12-30	10YR 6/4 light yellowish brown S	30+	10YR 7/8 yellow SC					Positive
	J-6	0-8	10YR 4/4 dark yellowish brown SL	8-16	10YR 4/2 dark grayish brown SL	16-25	10YR 7/8 yellow SC					Negative
	J-7	0-23	10YR 4/3 brown SL	23-35	10YR 5/8 yellowish brown SC							Negative
	J-8	0-18	10YR 4/4 dark yellowish brown SL	18-30	10YR 6/4 light yellowish brown SL							Negative
	J-9	0-17	10YR 4/4 dark yellowish brown SL	17-33	10YR 4/2 dark grayish brown S	33-44	10YR 7/8 yellow SC					Negative