



Phase II and Phase III Archaeological Database and Inventory

Site Number: 18KE45

Site Name: KCARP AN-12

Prehistoric

Other name(s)

Historic

Unknown

Brief Description:

Early Woodland shell midden

Site Location and Environmental Data:

Maryland Archaeological Research Unit No. 5

SCS soil & sediment code MWD

Latitude 39.3140

Longitude -76.1705

Physiographic province Eastern Shore Coastal P

Terrestrial site

Underwater site

Elevation <20 m

Site slope 11-20%

Ethnobotany profile available

Maritime site

Site setting

-Site Setting restricted

-Lat/Long accurate to within 1 sq. mile, user may need to make slight adjustments in mapping to account for sites near state/county lines or streams

Topography

- Floodplain
- Hilltop/bluff
- Interior flat
- Upland flat
- Ridgetop
- Terrace
- Low terrace
- High terrace
- Rockshelter/cave
- Hillslope
- Unknown
- Other

Ownership

- Private
- Federal
- State of MD
- Regional/county/city
- Unknown

Nearest Surface Water

Name (if any) Unnamed tidal pool

Saltwater

Ocean

Estuary/tidal river

Tidewater/marsh

Spring

Freshwater

Stream/river

Swamp

Lake or pond

Spring

Minimum distance to water is 10 m

Temporal & Ethnic Contextual Data:

Paleoindian site

Woodland site

Archaic site

MD Adena

Early archaic

Early woodland

Middle archaic

Mid. woodland

Late archaic

Late woodland

Unknown prehistoric context

Contact period site

ca. 1820 - 1860

ca. 1630 - 1675

ca. 1675 - 1720

ca. 1720 - 1780

ca. 1780 - 1820

Unknown historic context

Unknown context

Ethnic Associations (historic only)

Native American

African American

Anglo-American

Hispanic

Asian American

Unknown

Other

Y=Confirmed, P=Possible

Site Function Contextual Data:

Prehistoric

Multi-component

Misc. ceremonial

Village

Rock art

Hamlet

Shell midden

Base camp

STU/lithic scatter

Rockshelter/cave

Quarry/extraction

Earthen mound

Fish weir

Cairn

Production area

Burial area

Unknown

Other context

Historic

Urban/Rural?

Domestic

Homestead

Farmstead

Mansion

Plantation

Row/townhome

Cellar

Privy

Industrial

Mining-related

Quarry-related

Mill

Black/metalsmith

Furnace/forge

Other

Transportation

Canal-related

Road/railroad

Wharf/landing

Maritime-related

Bridge

Ford

Educational

Commercial

Trading post

Store

Tavern/inn

Military

Post-in-ground

Battlefield

Fortification

Encampment

Townsite

Religious

Church/mtg house

Ch support bldg

Burial area

Cemetery

Sepulchre

Isolated burial

Bldg or foundation

Possible Structure

Frame-built

Masonry

Other structure

Slave related

Non-domestic agri

Recreational

Midden/dump

Artifact scatter

Spring or well

Unknown

Other context

Interpretive Sampling Data:

Prehistoric context samples

Soil samples taken

Flotation samples taken

Other samples taken faunal remains

Historic context samples

Soil samples taken

Flotation samples taken

Other samples taken



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Diagnostic Artifact Data:

Projectile Point Types			
Clovis	<input type="checkbox"/>	Koens-Crispin	<input type="checkbox"/>
Hardaway-Dalton	<input type="checkbox"/>	Perkiomen	<input type="checkbox"/>
Palmer	<input type="checkbox"/>	Susquehana	<input type="checkbox"/>
Kirk (notch)	<input type="checkbox"/>	Vernon	<input type="checkbox"/>
Kirk (stem)	<input type="checkbox"/>	Piscataway	<input type="checkbox"/>
Le Croy	<input type="checkbox"/>	Calvert	<input type="checkbox"/>
Morrow Mntn	<input type="checkbox"/>	Selby Bay	<input type="checkbox"/>
Guilford	<input type="checkbox"/>	Jacks Rf (notch)	<input type="checkbox"/>
Brewerton	<input type="checkbox"/>	Jacks Rf (pent)	<input type="checkbox"/>
Otter Creek	<input type="checkbox"/>	Madison/Potomac	<input type="checkbox"/>
		Levana	<input type="checkbox"/>

Prehistoric Sherd Types

Marcey Creek	<input type="checkbox"/>	Popes Creek	<input type="checkbox"/>	Shepard	<input type="checkbox"/>	Keyser	<input type="checkbox"/>
Dames Qtr	<input type="checkbox"/>	Coulbourn	<input type="checkbox"/>	Townsend	<input type="checkbox"/>	Yeocomico	<input type="checkbox"/>
Selden Island	<input type="checkbox"/>	Watson	<input type="checkbox"/>	Minguannan	<input type="checkbox"/>	Monongahela	<input type="checkbox"/>
Accokeek	<input type="checkbox"/>	Mockley	<input type="checkbox"/>	Sullivan Cove	<input type="checkbox"/>	Susquehannock	<input type="checkbox"/>
Wolfe Neck	<input type="checkbox"/>	Clemson Island	<input type="checkbox"/>	Shenks Ferry	<input type="checkbox"/>		
Vinette	<input type="checkbox"/>	Page	<input type="checkbox"/>	Moyaone	<input type="checkbox"/>		
				Potomac Crk	<input type="checkbox"/>		

Historic Sherd Types

Earthenware		Ironstone	<input type="checkbox"/>	Staffordshire	<input type="checkbox"/>	Stoneware	
Astbury	<input type="checkbox"/>	Jackfield	<input type="checkbox"/>	Tin Glazed	<input type="checkbox"/>	English Brown	<input type="checkbox"/>
Borderware	<input type="checkbox"/>	Mn Mottled	<input type="checkbox"/>	Whiteware	<input type="checkbox"/>	Eng Dry-bodied	<input type="checkbox"/>
Buckley	<input type="checkbox"/>	North Devon	<input type="checkbox"/>	Porcelain	<input type="checkbox"/>	Nottingham	<input type="checkbox"/>
Creamware	<input type="checkbox"/>	Pearlware	<input type="checkbox"/>			Rhenish	<input type="checkbox"/>
						Wt Salt-glazed	<input type="checkbox"/>

All quantities exact or estimated minimal counts

Other Artifact & Feature Types:

Prehistoric Artifacts			
Flaked stone	488	Other fired clay	<input type="checkbox"/>
Ground stone	<input type="checkbox"/>	Human remain(s)	<input type="checkbox"/>
Stone bowls	<input type="checkbox"/>	Modified faunal	<input type="checkbox"/>
Fire-cracked rock	2	Unmod faunal	3
Other lithics (all)	<input type="checkbox"/>	Oyster shell	<input type="checkbox"/>
Ceramics (all)	<input type="checkbox"/>	Floral material	<input type="checkbox"/>
Rimsherds	<input type="checkbox"/>	Uncommon Obj.	<input type="checkbox"/>
		Other	<input type="checkbox"/>

Prehistoric Features

Mound(s)	<input type="checkbox"/>	Storage/trash pit	<input type="checkbox"/>
Midden	<input type="checkbox"/>	Burial(s)	<input type="checkbox"/>
Shell midden	<input type="checkbox"/>	Ossuary	<input type="checkbox"/>
Postholes/molds	<input type="checkbox"/>	Unknown	<input type="checkbox"/>
House pattern(s)	<input type="checkbox"/>	Other	<input type="checkbox"/>
Palisade(s)	<input type="checkbox"/>		
Hearth(s)	<input type="checkbox"/>		
Lithic reduc area	<input type="checkbox"/>		

Lithic Material

Jasper	<input checked="" type="checkbox"/>	Fer quartzite	<input type="checkbox"/>	Sil sandstone	<input type="checkbox"/>
Chert	<input checked="" type="checkbox"/>	Chalcedony	<input type="checkbox"/>	European flint	<input type="checkbox"/>
Rhyolite	<input type="checkbox"/>	Ironstone	<input checked="" type="checkbox"/>	Basalt	<input type="checkbox"/>
Quartz	<input checked="" type="checkbox"/>	Argilite	<input type="checkbox"/>	Unknown	<input checked="" type="checkbox"/>
Quartzite	<input checked="" type="checkbox"/>	Steatite	<input type="checkbox"/>	Other	<input type="checkbox"/>
		Sandstone	<input type="checkbox"/>		

Dated features present at site

Historic Artifacts			
Pottery (all)	<input type="checkbox"/>	Tobacco related	<input type="checkbox"/>
Glass (all)	<input type="checkbox"/>	Activity item(s)	<input type="checkbox"/>
Architectural	3	Human remain(s)	<input type="checkbox"/>
Furniture	<input type="checkbox"/>	Faunal material	<input type="checkbox"/>
Arms	<input type="checkbox"/>	Misc. kitchen	<input type="checkbox"/>
Clothing	<input type="checkbox"/>	Floral material	<input type="checkbox"/>
Personal items	<input type="checkbox"/>	Misc.	<input type="checkbox"/>
		Other	<input type="checkbox"/>

Historic Features

Const feature	<input type="checkbox"/>	Privy/outhouse	<input type="checkbox"/>	Depression/mound	<input type="checkbox"/>	Unknown	<input type="checkbox"/>
Foundation	<input type="checkbox"/>	Well/cistern	<input type="checkbox"/>	Burial(s)	<input type="checkbox"/>	Other	<input type="checkbox"/>
Cellar hole/cellar	<input type="checkbox"/>	Trash pit/dump	<input type="checkbox"/>	Railroad bed	<input type="checkbox"/>		
Hearth/chimney	<input type="checkbox"/>	Sheet midden	<input type="checkbox"/>	Earthworks	<input type="checkbox"/>		
Postholes/molds	<input type="checkbox"/>	Planting feature	<input type="checkbox"/>	Mill raceway	<input type="checkbox"/>		
Paling ditch/fence	<input type="checkbox"/>	Road/walkway	<input type="checkbox"/>	Wheel pit	<input type="checkbox"/>		

All quantities exact or estimated minimal counts

Radiocarbon Data:

Sample 1: 2335 +/- 70 years BP Reliability Sample 2: +/- years BP Reliability Sample 3: +/- years BP Reliability

SI-3250: Oyster shell sample from an unknown portion of the shell midden. No specific assoc. artifacts but lithic material was found at the site.

Low

Sample 4: +/- years BP Reliability Sample 5: +/- years BP Reliability Sample 6: +/- years BP Reliability

Sample 7: +/- years BP Reliability Sample 8: +/- years BP Reliability Sample 9: +/- years BP Reliability

Additional radiocarbon results available



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Brief

Description:

Early Woodland shell midden

Unknown

External Samples/Data:

Collection curated at

Additional raw data may be available online

Summary Description:

The KCARP AN-12 Site (18KE45) is a short-term resource procurement camp and shell midden. It is tentatively dated to the Early Woodland period based on a single (but disputed) radiocarbon date. The site is located east of the Chesapeake Bay shoreline in Kent County near Worton Point. Soils at the site are Mattapex and Woodstown, 11-20% slope. The overall site measures approximately 76 x 46 meters.

The site was first recorded during the Kent County Archaeological Research Project (KCARP) which involved a systematic regional surface survey, artifact collection, and analysis along the western shore of Kent County. The overall aim of the study was to assess the development of the interrelated changes in the prehistoric environment and resource utilization during the past 7,000-8,000 years along portions of the eastern shore of the Chesapeake Bay. Of particular interest was the nature and processes involved in the development of the oyster base subsistence system. Specific goals of the survey were to identify previously unidentified cultural resources within the study area and ultimately to determine if any of those resources were eligible for listing on the National Register of Historic Places. Funding was in part provided by the Maryland Historical Trust and three seasons of work were conducted in 1972/73, 1974, and 1976. The study area consisted of 191 km² of western Kent County, including 93 km of shoreline. It was bounded on the north by the Sassafras River, on the east by the Morgan and Woodland Creeks, on the south by a divide separating the Chesapeake Bay and the Chester River, and on the west by the Chesapeake Bay. The study period ranged from the establishment of the Bay (and the drowning of the ancestral Susquehanna River) to the contact period (ca. AD 1600).

The project began in 1972 with archival and environmental research. Fieldwork was conducted in late 1972 and 1973. The archeological investigations included pedestrian survey of several land tracts and controlled surface collection. Artifact clusters were collected in units of 30 m square grid systems. Approximately 7 m distance was maintained between fieldwalkers. A site or artifact cluster was defined as any 30 m² collection unit or group of contiguous units in which each contained a minimum of 40 artifacts. All artifacts were retained during the surface collection except for fire-cracked rock, oyster shells, and unmodified raw material (rocks and pebbles). Limited excavation of shovel tests pits was also done. Additionally, shell samples were collected from cliff exposures of 23 coastal archeological sites and 5 marshes for radiocarbon dating, and from a former sub-estuary for dating and pollen analysis. Archeological investigations were renewed in 1974 and again in 1976. The field seasons consisted of a continuation of the systematic surface survey, and artifact collection and analysis, with the addition of test unit excavations at a few sites. During the test unit excavations, column soil samples were acquired for future microanalysis. Test units were excavated in arbitrary 20 cm levels. An additional 61 radiocarbon samples were collected from 29 different shell sites during the 1974 and 1976 investigations. Results of the C14 dating led the excavators to conclude that oyster resources (*ostrea virginica*) were being exploited as early as 5,700 years ago in the Chesapeake region (roughly the Middle Archaic period).

A total of 87 land tracts were investigated during the three years of survey. The entire shoreline of Kent County was examined on foot and the shorelines of local rivers were examined from a shallow draft boat. The results of the 1970s surveys were provided in several volumes that consisted of computer printouts of individual clusters of artifacts/sites. Only two categories of stone artifacts were recognized, "worns" (tools) and "unworns" (debitage). Standard tool categories and cultural-historical types were not used. No catalogue forms that summarized the available data were provided.

A re-analysis of the prehistoric artifacts recovered during the 1970s surveys and excavations was carried out in 1983 by archeologists from the University of Delaware and funded by a National Park Service Survey and Planning grant from the Maryland Historical Trust. The aim of that re-analysis was to increase the research utility of the collection, which was then on deposit with the Division of Archeology, Maryland Geological Survey. The re-analysis provided more comprehensive descriptions of excavated materials, catalogues of surface collected materials, and in a few cases, listings of types of special interest. Artifacts were recorded as flakes, flake tools, staged bifaces, Late Archaic/Woodland I points (from after ca. 5000 BC-AD 1000), Woodland II points (ca. AD 1000-1600), other points, cores, indeterminate objects, groundstone artifacts and ceramics. Points were not designated to any particular cultural type but to one of the time periods or 'other points' categories as noted above. The re-analysis provided the most updated and more comprehensive data of the entire survey assemblage. It is that data that is given in the table above. No total counts for any of the faunal or floral material or for the ceramic sherds that were recovered from the test unit excavations were provided except in a few rare cases. Therefore, the totals for those objects in the table above should be considered minimum estimates.

During the 1974 survey the site was designated KCARP AN-12 at which time artifacts were surface collected. Two test units (Pits A and B) were also excavated at that time. Although the size of the units was not stated, most of the units excavated during the survey were either 1 m² or 1x2 m; therefore, the units from 18KE45 most likely fall into that size range. Four stratigraphic levels were excavated in Pit A, and 3 levels were excavated in Pit B. Ten vials containing flotation samples were cataloged during the re-analysis of the material assemblage from the excavated units. Unfortunately, no further information about the material contained therein was provided. However, at assemblages from other sites investigated during the same survey, vials contained primarily floral materials. Thus, it is likely that floral remains were contained in the flotation samples at site 18KE45.

A total of 479 artifacts were collected from the surface. There were 464 pieces ofdebitage (196 quartz, 3 quartzite, 241 chert, 10 jasper, 6 siderite, 8 other materials) and 2 chert cores. Three chert flake tools and 6 quartz staged bifaces were also recovered. Only 2 unidentified 'other points' were retrieved from the surface. Two fire-cracked rocks were also recovered. A further 14 artifacts were recovered from the test unit and test trench excavations. There were 11 pieces ofdebitage (quartz). Unmodified faunal material (n=3) consisted of 1 animal bone fragment and 2 snail shells. Floral material included various unidentified seeds thought to be modern in origin; therefore, they were not included in the overall assemblage total.

Two historic artifacts were retrieved during the surface collection and 1 from the excavated units. These were 1 brick fragment, 1 rosehead nail and 1 cut nail. They were cataloged as architectural items in the table above.

One shell sample was collected from 18KE45 for radiocarbon dating. The location of the samples and any associated artifacts was not made explicit in the original reports. The sample (SI-3250; 2335±70) produced a date range of 594-338 BC calibrated to 2-sigma using the Intcal09 program. This date falls within the Early Woodland period. However, the general validity of the sample was questioned during the 1983 re-analysis. With no diagnostics to refute or support the radiocarbon date, it would be speculative to suggest that the radiocarbon date definitively indicated an Early Woodland date for the shell midden deposits. The reliability of radiocarbon dates derived from oyster shell samples from the Upper Chesapeake are thought to be faulty by some researchers. Therefore, the date derived for 18KE45 is in question.



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Description:

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External Reference Codes (Library ID Numbers):

00005907, 00005909, 00005910, 00005911, 00005936, 00006808, Site Files