



# Phase II and Phase III Archaeological Database and Inventory

Site Number: 18KE38

Site Name: Grove 1

Prehistoric

Other name(s) KCARP GR-1 (GR-1/1, 1/2, 1/3, 1/4, 1/5, 1/6, 1/7)

Historic

Brief Description:

Late Archaic and Woodland short-term procurement camp and shell midden

Unknown

## Site Location and Environmental Data:

Maryland Archaeological Research Unit No. 5

SCS soil & sediment code MpA

Latitude 39.2695 Longitude -76.2124

Physiographic province Eastern Shore Coastal P

Terrestrial site

Underwater site

Elevation m Site slope 0-5%

Ethnobotany profile available  Maritime site

### Nearest Surface Water

Name (if any) Fairlee Creek

#### Saltwater

Ocean

Estuary/tidal river

Tidewater/marsh

Minimum distance to water is 0 m

#### Freshwater

Stream/river

Swamp

Lake or pond

Spring

### 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

## 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. 1860 - 1900

ca. 1675 - 1720  ca. 1900 - 1930

ca. 1720 - 1780  Post 1930

ca. 1780 - 1820

Unknown historic context

Unknown context

### Ethnic Associations (historic only)

Native American

Asian American

African American

Unknown

Anglo-American

Other

Hispanic

Y=Confirmed, P=Possible

## Site Function Contextual Data:

### Prehistoric

- Multi-component
- Village
- Hamlet
- Base camp
- Rockshelter/cave
- Earthen mound
- Cairn
- Burial area
- Misc. ceremonial
- Rock art
- Shell midden
- STU/lithic scatter
- Quarry/extraction
- Fish weir
- Production 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

Battlefield 

Fortification 

Encampment 

#### Townsite

#### Religious

- Church/mtg house
- Ch support bldg

#### Burial area

Cemetery 

Sepulchre 

Isolated burial 

#### Bldg or foundation

Possible Structure 

Post-in-ground 

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 N

Flotation samples taken N

Other samples taken

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

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

All quantities exact or estimated minimal counts

## Other Artifact & Feature Types:

Prehistoric Artifacts			
Flaked stone	1419	Other fired clay	<input type="checkbox"/>
Ground stone	1	Human remain(s)	<input type="checkbox"/>
Stone bowls	<input type="checkbox"/>	Modified faunal	<input type="checkbox"/>
Fire-cracked rock	<input type="checkbox"/>	Unmod faunal	106
Other lithics (all)	<input type="checkbox"/>	Oyster shell	<input checked="" type="checkbox"/>
Ceramics (all)	8	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"/>
Midden	<input type="checkbox"/>
Shell midden	<input checked="" type="checkbox"/>
Postholes/molds	<input type="checkbox"/>
House pattern(s)	<input type="checkbox"/>
Palisade(s)	<input type="checkbox"/>
Hearth(s)	<input type="checkbox"/>
Lithic reduc area	<input type="checkbox"/>
Storage/trash pit	<input type="checkbox"/>
Burial(s)	<input type="checkbox"/>
Ossuary	<input type="checkbox"/>
Unknown	<input type="checkbox"/>
Other	<input type="checkbox"/>

Lithic Material	
Jasper	<input checked="" type="checkbox"/>
Chert	<input checked="" type="checkbox"/>
Rhyolite	<input checked="" type="checkbox"/>
Quartz	<input checked="" type="checkbox"/>
Quartzite	<input checked="" type="checkbox"/>
Fer quartzite	<input type="checkbox"/>
Chalcedony	<input type="checkbox"/>
Ironstone	<input checked="" type="checkbox"/>
Argilite	<input checked="" type="checkbox"/>
Steatite	<input type="checkbox"/>
Sandstone	<input type="checkbox"/>
Sil sandstone	<input type="checkbox"/>
European flint	<input type="checkbox"/>
Basalt	<input type="checkbox"/>
Unknown	<input checked="" type="checkbox"/>
Other	<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	<input type="checkbox"/>	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"/>
Foundation	<input type="checkbox"/>
Cellar hole/cellar	<input type="checkbox"/>
Hearth/chimney	<input type="checkbox"/>
Postholes/molds	<input type="checkbox"/>
Paling ditch/fence	<input type="checkbox"/>
Privy/outhouse	<input type="checkbox"/>
Well/cistern	<input type="checkbox"/>
Trash pit/dump	<input type="checkbox"/>
Sheet midden	<input type="checkbox"/>
Planting feature	<input type="checkbox"/>
Road/walkway	<input type="checkbox"/>
Depression/mound	<input type="checkbox"/>
Burial(s)	<input type="checkbox"/>
Railroad bed	<input type="checkbox"/>
Earthworks	<input type="checkbox"/>
Mill raceway	<input type="checkbox"/>
Wheel pit	<input type="checkbox"/>
Unknown	<input type="checkbox"/>
Other	<input type="checkbox"/>

All quantities exact or estimated minimal counts

## Radiocarbon Data:

Sample 1: 5565 +/- 65 years BP	Reliability	Sample 2: 895 +/- 85 years BP	Reliability	Sample 3: 4065 +/- 80 years BP	Reliability
SI-1906: Oyster shell sample from an unknown portion of the site; possibly assoc. w/ lithic material and ceramics.	Low	SI-2798: Oyster shell sample from an unknown portion of the site; possibly assoc. w/ lithic material and ceramics.	Low	SI-2799: Oyster shell sample from an unknown portion of the site; possibly assoc. w/ lithic material and ceramics.	80
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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Historic

Brief Description:

Late Archaic and Woodland short-term procurement camp and shell midden

Unknown

## External Samples/Data:

Collection curated at

Additional raw data may be available online

## Summary Description:

The Grove 1 Site (18KE38) is a multicomponent site with Late Archaic to Late Woodland period short-term resource procurement camps and a shell midden. The site is located near Tolchester Beach in Kent County. It runs along a point situated between an embayed creek and the Chesapeake Bay. The site sits in an agricultural field and there is extensive erosion on the bay side. The extant part of the site measures approximately 381 m by 152 m.

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 km<sup>2</sup> 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 m<sup>2</sup> 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 surveys and excavations from the 1970s 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.

The site identified during the 1973 surface survey, at which time it was designated KCARP GR-1. In 1974, seven loci that comprise the site were systematically surface collected. Site forms were provided for the 7 loci within site GR-1. GR-1/1 was described as a Late Woodland shell midden with lithics, covering 900 m<sup>2</sup>. GR-1/2 was a Late Archaic-Late Woodland shell midden with lithics and ceramics covering 2700 m<sup>2</sup>. GR-1/3 was an Early and Late Woodland site with lithics and ceramics covering 900 m<sup>2</sup>. GR-1/4 and GR-1/5 were shell middens with lithics covering 1800 m<sup>2</sup> and 3,600 m<sup>2</sup> respectively. GR-1/6 was an Early and Middle Woodland site with lithics and ceramics covering 900 m<sup>2</sup>. GR-1/7 was an Early and Middle Woodland shell midden with lithics and ceramics covering 3600 m<sup>2</sup>. In addition to the surface collection, four 1 m x 2 m test units referred to as Pits 1-4 were excavated.

The artifacts from the individual loci were recorded together as site 18KE38 in the re-analysis. A total of 1,428 artifacts were collected from the surface. There were 1,214 pieces of debitage (393 quartz, 16 quartzite, 586 chert, 78 jasper, 42 rhyolite, 53 argillite, 24 sidarite, 22 other materials) and 61 cores (37 quartz, 23 chert, 1 sidarite). A total of 46 flake tools (10 quartz, 30 chert, 4 jasper, 2 rhyolite) and 101 staged bifaces (73 quartz, 7 quartzite, 7 chert, 3 jasper, 1 argillite, 6 sidarite, 4 other) were also recovered. In all, 3 Late Archaic/Woodland I points and 2 Woodland II points were retrieved. The single groundstone item was a schist axe fragment. As noted on the Site Survey forms, ceramics were encountered at the site. A minimum estimate of 8 unidentified prehistoric ceramic sherds is therefore listed in the table above. According to the 1983 re-analysis, the only items recovered from the test unit excavations were unmodified faunal materials (n=106). There were 36 animal bone fragments, 2 turtle bones, 36 shells and shell fragments (probably oyster), and 32 snail shells.

Three shell samples were collected from the site for radiocarbon analysis, SI-1906: 5565±65, SI-2798: 895±85, and SI-2799: 4065±80. The resulting dates calibrated to 2-sigma (Intcal09) were 4539-4326 BC, AD 1012-1272, and 2884-2457 BC respectively. These dates fall within the Middle and Late Archaic and late Woodland periods. These dates roughly relate to the point types found at the site. However, the general validity of dates obtained from the samples was questioned during the 1983 re-analysis. When diagnostics were identified with a shell midden, they appeared to be in the surface collection from around the midden and not in the midden itself, as was the case at 18KE38. When diagnostic artifacts were present within the middens, the diagnostics did not fit with the radiocarbon date. The reliability of radiocarbon dates derived from oyster shell samples from the Upper Chesapeake are thought to generally be faulty by some researchers. Therefore, the dates derived for 18KE38 are in question.



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Prehistoric

Other name(s) KCARP GR-1 (GR-1/1, 1/2, 1/3, 1/4, 1/5, 1/6, 1/7)

Historic

Brief  
Description:

Late Archaic and Woodland short-term procurement camp and shell midden

Unknown

The Grove 1 Site (18KE38) is a multicomponent site with Late Archaic to Late Woodland period short-term resource procurement camps and a shell midden. Local residents are known to have collected the site for several years. It was suggested by the archeologists that the site may have been disturbed by historic shell quarrying. All of the information regarding the site was provided in tabular data form. No detailed interpretation, discussion, or conclusions were available in any of the associated reports.

## External Reference Codes (Library ID Numbers):

00005907, 00005909, 00005910, 00005911, 00005924, 00005936, 00006808, Site Files