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LANDMARKS PRESERVATION  
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STAGE II ARCHAEOLOGICAL SURVEY  
WOODVALE-BY-THE-SEA  
TAX LOTS 188, 184 AND 181, BLOCK 8005  
TOTTENVILLE, STATEN ISLAND, NEW YORK  
(NYSDEC Application No. 20-87-0218)

BY  
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Conducted For  
Calvanico Associates

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786

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## I INTRODUCTION

### Background

The Woodvale-by-the-Sea project involves the planned construction of nine residential units on tax lots 188, 184 and 181, block 8005, Staten Island, New York. The property is located on the northwest corner of Hopping Avenue and Amboy Road in the Tottenville section of Staten Island (see Figure 1). It includes 106,979 square feet above the high water line and an additional 35,120 square feet below the high water line (see site map, Figure 2 and Appendix C). The project area is an irregularly shaped parcel which extends approximately 200 feet north of Amboy Road along the west side of Hopping Avenue and approximately 475 feet west of Hopping Avenue along the north side of Amboy Road to the shore of the Arthur Kill. On its northern boundary the property extends some 350 feet west of Hopping Avenue to the Arthur Kill. The western boundary of the upland portion runs along the Arthur Kill shore for approximately 400 feet north of the line of Amboy Road.

In January, 1988 a report presenting the results of a Stage I archaeological survey of the property (Pickman 1988) was submitted to the New York State Department of Environmental Conservation (NYSDEC). The sub-surface testing conducted for the Stage I survey encountered "what appear to be loci of prehistoric activity in two portions of the project area" (Pickman 1988:3) and a Stage II site evaluation was recommended in these two areas. The first, designated in the Stage I report as "area A", is located immediately adjacent to Hopping Avenue, and extends approximately 90 feet north of Amboy Road. The area encompasses land which extends westward at the approximate grade of Hopping Avenue for some 25 - 30 feet (see Plate 1). The ground then falls approximately six feet to another relatively level area which extends an additional 100 feet to the edge of the bluffs which overlook the Arthur Kill. Three of the Stage I shovel tests located within a radius of approximately 10 feet yielded a total of 23 lithic flakes, chips and blocky fragments and one ceramic sherd. Two other tests in area A also yielded a few pieces of lithic debitage. All of the artifacts were recovered from what appeared to be a stratum of undifferentiated orange sand similar to a stratum found at other Staten Island sites which contained artifact-bearing levels. The topsoil at this location appeared to have been previously removed.

"Area B" is a fairly level area which begins approximately 160 feet north of Amboy Road and 130 feet west of Hopping Avenue. From this point it extends northward to the project area boundary. The southern and western boundaries are defined by the edge of the bluffs. To the east, the ground elevation increases some 2 -3 feet to the location of a concrete retaining wall which marks the western boundary of an area severely disturbed by recent construction (see Plate 2). The results of the Stage I

tests indicated the presence of prehistoric artifacts in the more gently sloping area west of this rise. Six of the tests yielded at least one piece of prehistoric lithic debitage. The Stage I results suggested that approximately 1 1/2 - 2 feet of fill overlies a buried "plow zone" stratum in area B.

In summary, the results of the Stage I testing suggested that areas A and B may have been loci of prehistoric campsites.

The Stage I survey report also noted the presence of a number of dilapidated waterfront "structures" (piers and derelict ships) along the shore of the Arthur Kill associated with a shipyard which was established in the 1870's.

In a letter to Mr. Fred E. Weiss dated April 4, 1988, NYSDEC agreed that Stage II archaeological testing should be carried out in area A and area B. The objective of this Stage II survey is to determine the eligibility of each site for the State and National Registers of Historic Places. To accomplish this objective, excavations were conducted which enabled us to assess the horizontal and vertical extent of each site, its integrity and, to the extent possible, its cultural affiliation and function.

NYSDEC also requested additional recording of the shipyard structures and a discussion of the probable effects of construction.

### Field Methods

Prior to the start of the Stage II excavations, areas A and B were gridded into 10 foot squares using a tape and sighting compass. The datum point for both grids was the telephone pole shown on the map at the northwest corner of Hopping Avenue and Amboy Road (the same datum point used for the Stage I tests). While laying out the grid in area B, we realized that an error had been made in locating the Stage I shovel tests which resulted in these tests and the bluff edge at the southern boundary of area B being located on the Stage I site map approximately 10 feet south of their actual positions. These errors have been corrected on the map accompanying this report (Figure 2a and Appendix D). In referring to the Stage I tests, the original designations have been retained, however.

The elevations of all test units and other grid points were taken using a level line. The absolute elevation was established by tying these elevations to two points shown on the site plan. For site A, this point was the manhole at the intersection of Amboy Road and Hopping Avenue. For site B it was the ground elevation, as shown on the site plan, at the northwest corner of the recently constructed residential structure in the northeastern portion of the project area.

Except for the strata indicated in the descriptions of the

excavations, all soil was screened through 1/4 inch mesh. Soil samples were taken from most excavated contexts.

### The Brown Shipyard

Visual observation and results of the Stage I shovel tests indicated that fill had been deposited east of the Arthur Kill shoreline. We used a backhoe to remove this fill in several areas to determine whether or not any portion of the shipyard structures remained intact beneath the fill. Some additional documentary research and an interview with a local informant was also conducted to provide additional data as to the history and operation of the shipyard. The locations of the various piers and other structures were determined by using a tape and compass and tied into a base line which was extended parallel to Hopping Avenue from one of the Amboy Road sewer manholes. The shipyard remains which are visible at high tide have been indicated on the project map (Figure 2b-d and Appendix C). The map shows the remains which are visible at high tide. It should be noted that most of the photographs included in this report were taken at or near low tide and thus show some remains which are not indicated on the map.

### Laboratory Processing and Tabulations

All of the artifacts and faunal materials recovered were washed, sorted, tabulated and placed in plastic bags numbered as to the provenience from which recovered. The provenience identification was written directly on the prehistoric tools and ceramic sherds. Appendix B to this report lists the artifacts and faunal materials recovered from each excavated context and indicates the unit, soil type, depths below the surface and identifying number for each context. Marine shell, coal, mortar and brick were weighed. Marine shell was sorted by species only for the non-landfill contexts.

Appendix A shows at least one profile from each of the test units and from backhoe trench A. Additional profiles have been included where such drawings add significant information. It should be noted that the field recording system assigned stratum designations within each test unit according to the sequence of excavation in each unit. We did not attempt to assign the same stratum and level designation to the same stratum when it was encountered in more than one test unit. However, the profile drawings included in Appendix A use the same shading key to indicate the same stratum in the various test units. The discussion in the following chapters indicates the stratum designations used during excavation (Appendix B) and in the profiles (Appendix A).

### Curation

All artifacts, faunal materials and soil samples recovered from the test excavations together with the field records will become a part of the collections of the Staten Island Institute of Arts and Sciences.

## II TEST RESULTS - SITE A

### Testing Strategy

The testing strategy for site A involved placing shovel tests at the grid intersections to assess the artifact distribution and determine whether there were concentrations of artifacts in locations other than that noted in the Stage I survey report. Prior to the beginning of the Stage II testing, the trees and brush had been removed from this area (see Plate 1). This created some surface disturbance which turned out not to affect the test results. This disturbance also uncovered a concrete sidewalk (at the location shown on the site map) which had been buried under a thick accumulation of humus, leaves and brush which had been dumped in this area.

After shovel testing was completed, excavation of two test squares was begun in the area in which both the Stage I and Stage II shovel testing indicated that the artifacts were concentrated. Test unit A, a 4 by 4 foot square, was located adjacent to the location of Stage I shovel test N50W15. Test Unit B, measuring 5 by 5 feet, was placed at the location of Stage I shovel test N47W29. Since this shovel test location was within the boundaries of the test unit, the shovel test backfill was excavated separately and discarded.

The results of the shovel tests and the initial results of the two tests units suggested the possibility that all of the area A deposits consisted of landfill. Therefore, a backhoe was initially used to excavate one trench (backhoe trench A) which was placed north of the excavation units. The eastern end of this trench was placed on the slope which forms the western boundary of area A. Examination of the backhoe trench A profile (see Appendix A) indicated that the area had, in fact, been filled. Examination of the profiles of three additional backhoe trenches (backhoe trenches B-D) placed in area A confirmed that the entire area had been filled. Profiles of these trenches were photographed. However because the trenches had to be backfilled by the end of the day for reasons of safety, it was not possible to draw the profiles.

Once it was determined that the deposits which had yielded the prehistoric artifacts were in fact landfill, excavation of test unit A was terminated. However, we continued to excavate unit B, in order to obtain a larger sample of the artifacts from the disturbed landfill deposits and to attempt to sample the deposits underlying the landfill. The initial excavation strategy was to excavate all soil beneath the surface humus in two inch arbitrary levels. However after it was determined that the excavated material represented landfill deposits, the thickness of the excavated levels was increased.



## Shovel Tests

The twelve shovel tests initially placed in area A seemed to confirm the results of the Stage I tests, which indicated that prehistoric artifacts were concentrated in an area between the N50 and N70 transects. Between 3 and 5 pieces of prehistoric lithic debitage were recovered from each of four tests in this area. However, pieces of coal and historic period artifacts were also recovered, even from the lower levels of these tests. While the presence of historic period artifacts could have been due to the heavy root disturbance, the stratigraphy in the shovel tests suggested that area A did not in fact contain the deposit of undifferentiated orange sand in which artifact bearing strata have been reported in other portions of Staten Island. The variations in soil types suggested by the shovel test results suggested the possibility that the grade in area A had been raised by the deposition of landfill.

It should be noted that the location of shovel tests N30W25 and N40W25 had apparently been recently filled-in during the removal of trees and brush from the area.

## Backhoe Trenches

### Backhoe Trench A

The east profile of this trench is shown in Appendix A. The profile suggests that the strata indicated as #11 may have represented a ground surface which developed preceding the landfilling. Although not shown on the profile, a very thin (ca. 1/4 inch) layer of brown silty sand constituted the top portion of this stratum, with the remainder of the 2-3" thick stratum consisting of brown sand. Pieces of shell and coal were observed in several of the strata overlying this level. The gray sand underlying this stratum appeared to be natural subsoil, most likely a Pleistocene deposit. The reddish clayey silt (stratum #15), at the base of the stratigraphic column represents a subsoil stratum found throughout this portion of Staten Island. In some areas, however, this stratum is overlain by the yellow/orange sand referred to above which has been reported as containing artifact-bearing levels. Strata #2-4 superficially resembled this naturally occurring stratum, especially when encountered in the smaller shovel tests, and it is apparently these strata which yielded the prehistoric artifacts recovered from the Stage I shovel tests. When seen in the profiles of backhoe trench A and excavation unit B (see below) these strata were seen to include a much greater amount of mottling than the natural deposits of yellow/orange sandy subsoil.

Upon examination, it was initially believed that strata 5 and 8, consisting of brown sandy silt and brown sand, respectively, might have represented ground surfaces which developed between episodes of filling. However, the results of test unit B (see

below) suggest that these strata may be additional deposits of landfill.

#### Backhoe Trenches B, C and D

These three trenches were located south of the location of test units A and B. In each of these trenches a humus level was noted at depths of from 5 1/2 to 7 1/2 feet below the surface. During the excavation of backhoe trench B, shell and historic period artifacts were noted mixed with the humus in the east wall of the trench. The artifacts, which were not retained, included bottle glass and a stoneware ink bottle. The humus was underlain by a thin stratum of brown sand followed by gray sand. The gray sand was underlain by a thin (ca. 6-12 in.) stratum of yellow sand followed by gray and red silts and clays. This stratigraphy is similar to that noted at the base of the sequence recorded above in backhoe trench A. The landfill stratigraphy which overlay this sequence did not appear to be the same as that recorded in the backhoe trench A profile. The landfill appeared to consist mainly of reddish brown sand or silty sand. The orange mottled sand did not appear to be present in these profiles.

#### Test Unit A

Excavation of this test unit was discontinued at a depth of 12 inches below the surface when it became apparent that the artifact-bearing deposits consisted of landfill. The soil beneath the surface humus consisted of orange, brown and orange/brown mottled sand. A total of 21 pieces of lithic debitage were recovered in addition to two prehistoric ceramic sherds. These were grit tempered and undecorated. Little historic period material was recovered from these deposits. This includes a few pieces of coal and 2 wire nails from the uppermost level of the sand.

#### Test Unit B

This test unit encountered a deposit of orange/brown sand, excavated as stratum III, beneath the surface humus. This corresponds to the strata numbered #3 - 4 on the profile drawings. This deposit sloped downward to the west and also to the south, ending at depths between 17 1/2 and 41 1/2 inches. It contained most of the prehistoric material recovered from this unit. This includes 72 pieces of lithic debitage, including 19 pieces which could be identified as tool resharpening flakes. Six prehistoric ceramic sherds were also recovered. All of these were grit/sand tempered. None were decorated. Also recovered were one utilized flake, one flake possibly modified for use as a graver (see Plate 3), and one possibly use-modified cobble. This deposit contained some pieces of coal in all levels, but relatively few other historic period artifacts. These include two ceramic sherds, three pieces of curved glass, two nail fragments, and one large piece of red brick. This deposit also contained 22 small

pieces of mammal bone. Comparatively large quantities of shell and pieces of rock which are likely to have been fire-cracked were also recovered. This material could have derived from either historic or prehistoric period sources. However, the fact that the underlying strata, which contain more historic period and many fewer prehistoric artifacts, also yielded much lower densities of shell and fire-cracked rock suggests that at least some of this material is of prehistoric origin. It is apparent that this is the deposit which yielded the prehistoric material encountered in both the Stage I and Stage II shovel tests. Possible sources of this material are discussed below.

Underlying the above deposit were strata of gray/brown and red/brown sand, many of which were mottled with clumps of red and yellow clay. This soil was excavated as strata IV-VI, which correspond with the strata numbered #5-14 on the profile drawing. It should be noted that beginning with stratum VIC, only the northern half of test unit B was excavated. Except for three lithic flakes recovered from the uppermost level (IVa), these strata yielded no prehistoric material. Relatively little marine shell and bone were recovered compared to the overlying strata. However, comparatively more historic period material was recovered, including a higher concentration of coal. The ceramic sherds include seven whiteware as well as three small sherds identified as pearlware. The historic period artifacts also include a fragment of a safety pin.

The strata excavated as VII-XI (indicated as #15-20 on the profile drawings) consisted of gray/brown and brown sand (strata VII-IX) and orange/brown sand (strata X-XI), most of which were mottled with clay. These strata contained densities of marine shell and historic period artifacts roughly comparable to those in the overlying group of strata discussed above. However, strata VII-IX each contained one or two pieces of prehistoric lithic debitage. The historic period material includes a few ceramic sherds dateable to the 18th or early 19th century (slipware, creamware, pearlware, delftware and white salt glazed stoneware. However, two of the 17 sherds are whiteware. Stratum VII also yielded a .22 caliber bullet cartridge. It should be noted that beginning with stratum XI, only the northwestern 1/4 of the original square was excavated.

The stratum excavated as XII (profile strata #21-22) apparently corresponds with stratum #11 as indicated on the backhoe trench A profile and probably represents a stratum deposited prior to the land-filling. The soil was a brownish gray sand, mottled with lighter gray sand. There appeared to be a thin, darker brown and siltier band at the top of this stratum. This stratum yielded one chert flake and another chip which may have been naturally fractured. Three pieces of curved glass and one small marine shell fragment were the only other artifacts recovered. Underlying this stratum was a deposit of compact gray sand containing rocks which was excavated to a depth of 99/100.5 inches (stratum XIII - #23 on the profile). Rust colored mottling

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was noted at the bottom of this stratum. It is most likely a Pleistocene deposit corresponding to strata #13-14 on the backhoe trench A profile. A small marine shell fragment was the only material recovered.

#### Site A - Summary

The elevation of the land rises east of Hopping Avenue with a house located on top of the rise. There is a retaining wall in front of this house, with elevation at the top of the wall at approximately 39-40 feet and the Hopping Avenue grade approximately 3 1/2 feet lower. West of Hopping Avenue, the elevation of the land within area A is approximately the same as at the corner of Hopping Avenue and Amboy Road, at approximately the 36 foot elevation. West of Area A the grade drops abruptly by some six feet to about the 30 foot elevation (see Plate 1), with a more gradual slope downward to the edge of the bluffs.

The results of test unit B and backhoe trenches B-D indicate that the pre-landfilling elevation in area A was at approximately the 29-30 foot elevation (six feet lower than at present). Just west of area A the elevation of the pre-landfilling surface at the location of backhoe trench A was approximately 27 feet, a drop of some two feet. The results of Stage I shovel test NSOW62 suggest that there are some two feet of fill at the location of the test with the pre-filling surface at approximately the 26 foot elevation, suggesting a gradual slope downward toward the bluff edge. The gray/brown stratum underlying the fill in test unit B and backhoe trench A varied in thickness from approximately 2 to 8 inches suggesting the possibility that this stratum was disturbed during or prior to the landfilling.

It is possible that the fill was deposited to raise the grade in area A at the time that Hopping Avenue was opened. The data suggest that there was a drop of some ten feet between the grade on the east and west sides of Hopping Avenue. The location of the street thus may have originally been sloping. The fill may have been deposited at the time that Hopping Avenue was opened. The sloping land at the location of the road would have been graded. The soil removed from the sloping surface may have been deposited in the lower-lying area west of the road at this time.

The first map to show Hopping Avenue is the 1874 Beers atlas (see Pickman 1988). The artifacts recovered from the landfill are not inconsistent with deposition during this period. The land-filling had been definitely completed by 1911, since the Borough of Richmond Topographic Map of that year (Figure 4) shows the grade in this area essentially the same as at present. The appearance of the landfill would accord with the fact that it derived from the grading of the area, rather than being brought in from outside the immediate area. The soil types comprising the fill include the orange sand and red clay found in the subsoil as well as gray and brown sand which could have comprised the topsoil in the area. Thus it can be inferred that the prehistoric artifacts

recovered from the landfill probably derived from a site or sites originally located in the immediate area. The material could have been obtained from the current location of Hopping Avenue. Alternatively, it may have derived from the shipyard property closer to the bluff edge. Some of the Stage I shovel tests indicated that the soil overlying the red clay had been removed in this area.

No diagnostic prehistoric lithic artifacts were recovered from the area A excavations. The presence of eight ceramic sherds indicates that there was a Woodland period occupation in the area. However, more than one site may be represented by the material recovered.

Of the 118 pieces of lithic debitage recovered from site A, 66.9% were identified as chert, 23.7% as jasper and 9.3% as argillite. Flake morphology suggests that 21 of the 82 pieces of lithic debitage recovered (25.6%) represent tool edge resharpening flakes. In addition most of the flakes, even those not specifically identified as resharpening flakes, were small, suggesting that other flakes may have derived from the reworking of existing tools rather than the manufacture of new tools from raw materials. This would be consistent with the identification of the sites in the area as temporary camp sites.

### III TEST RESULTS - SITE B

#### Testing Strategy

According to our initial plan for site B, the first step would be to place shovel tests at the grid intersections in order to determine artifact distribution. However, we decided to first excavate several test units at the locations of greatest artifact concentration as determined by the Stage I test results in order to make sure that the artifacts did not derive from landfill, as was the case in area A. The first test unit excavated, unit C, was located immediately to the north of Stage I shovel test N149W144. A second test unit, D, was placed approximately 15 feet northwest of unit C, immediately north of the location of Stage I shovel test N167W153. All of the soil excavated from test unit C was screened through 1/4 inch mesh. However, only a sample (1/2 - 1/3) of the landfill strata from test unit D was screened. The stratigraphy encountered by test unit D was as indicated by the results of the Stage I shovel tests. However, the excavation of test unit C indicated that the fill at this location was deeper than indicated by the Stage I test results. Because the greatest artifact density appeared to be located in the vicinity of unit C and because we wanted to determine the profile of the strata underlying the fill, we decided to excavate an additional unit (test unit E) north of unit C. Since results of the latter unit suggested that up to four feet of fill were present at this location we used the backhoe to strip off the fill from an area north of test unit C (backhoe trench E). Excavation of test unit E, therefore, began beneath the level of the fill deposits. This unit, measuring five by three feet, was excavated so that its west wall was the west wall of the backhoe trench. Because the area which could be excavated by the backhoe was limited by the nature of the terrain and presence of trees, test unit E was not aligned with the site B grid. Since it turned out that the stratigraphy in test unit E was similar to that in unit D, an additional area measuring approximately 3 x 3 feet (test unit E extension) was shoveled out so that profiles could be recorded which would tie together the stratigraphy encountered in units C and E. None of the soil from this extension was screened.

In order to test the northern portion of area B we used the backhoe to strip the deposits of fill from the area noted on the map as backhoe trench F. Since the stratigraphy in this area appeared to be different than that in the southern portion of the area, this trench was continued into the sterile subsoil. A small test unit (unit F), measuring 2 1/2 by 2 1/2 feet, was placed in the north wall of the backhoe trench. The uppermost layers, which contained cinder and ash lenses, were not screened.

Subsequent to the excavation of the above test units, four shovel tests were placed in the western portion of area B, to insure that there were no other concentrations of artifacts in this area. One of these and an additional shovel test were placed



north of the project area boundary on the adjacent property.

### Test Unit C

The first two strata excavated below the surface humus (strata IIa and IIIa - indicated as strata #2 - 9 on the profile drawings) correspond with those strata identified as fill in Stage I shovel test N149W144, located immediately south of the test unit. Strata IIa-IIIa contained a substantial density of historic period artifacts, including 14 whiteware ceramic sherds and 24 wire nails. Stratum IIIa yielded two prehistoric lithic flakes. Stratum IIa yielded no prehistoric lithic material, but nine prehistoric ceramic sherds were recovered from this stratum. Four of these were grit tempered while five had no visible temper and appeared to be leached shell-tempered sherds. The eroded exterior surface of the latter sherds may have originally been cord marked. One of the grit tempered sherds had incised decoration (see Plate 4).

In the Stage I shovel test, a stratum of light brown sand, the top five inches of which were mottled with orange sand, were encountered at 24-39 inches below the surface. It was concluded that these strata represented a buried "plow zone", which was also encountered in other Stage I shovel tests in area B. We expected that the strata corresponding to those excavated as IIIb and IV in test unit C would represent this buried "plow zone". However, as strata IIIb and IVa were excavated, the continued mottling of the black sandy silt with yellow/brown sand suggested that this material probably represented additional fill. At the base of stratum IVa it appeared that the mottled soil continued downward in the southern portion of the square while the northern portion contained darker soil. The mottled soil in the southern portion was excavated as stratum VIa. This mottled stratum (indicated on the profile drawings as strata (#10 and 11) apparently represents additional fill. However, unlike the overlying strata, deposits corresponding to these were not encountered in units D and E (see below). This mottled stratum yielded both prehistoric and historic period artifacts. The former include one grit tempered ceramic rim sherd, a denticulate-edged scraper (Plate 5), and 43 pieces of lithic debitage (one utilized). The historic period artifacts include a whiteware sherd and two pieces of rubber.

The profile drawings indicate that underlying the yellow mottled soil was a stratum of dark gray/brown silty sand (stratum #13). This stratum was 6-14 inches thick and was disturbed in several areas by large roots. This stratum was underlain by a 3-6 inch thick stratum of lighter brown silty sand (west profile stratum #14; north profile stratum #15). The latter stratum corresponds with a somewhat thicker stratum encountered in test units D and E and most of the shovel tests (see below). However, in test unit C this stratum began at approximately 46-50 inches below the surface while in the other units it began at depths of approximately 18-24 inches. A layer corresponding to the

overlying stratum (#13) was encountered in test unit D although it was much thinner in the latter unit. This stratum was not present in test unit E.

Problems with visibility at the bottom of the unit made distinguishing the soil differences difficult during excavation of unit C. The stratum excavated as Va in the northern part of the unit corresponds to profile stratum #13 but the excavated material may have included some of the overlying fill. The stratum excavated as Vb includes the light brown silty sand (#14) but also includes some of the overlying stratum #13 as well as the some of the underlying tan and orange/tan sand.

Stratum Va yielded densities of prehistoric and historic period materials comparable to those in the overlying orange mottled fill strata. Eleven pieces of prehistoric debitage were recovered. The historic period artifacts include a single delFTWARE sherd as well as both bottle and table glass. A wood screw was also recovered.

The underlying stratum Vb, contained a comparable number but a lower density of prehistoric artifacts. Fifteen flakes, (including one utilized flake) were recovered, as well as a denticulate-edged scraper (Plate 7). The historic period artifacts include 10 whiteware, as well as a few earlier sherds and a portion of a decorated serving spoon. This stratum contained more coal than the overlying strata.

The remaining excavated strata consist of the silty sand and clayey subsoil encountered in all of the test units. Only a few small shell fragments were recovered.

#### Test Unit D

This unit was the second excavated in site B and was located some 15 feet northwest of test unit C. The fill strata in this unit (profile #3-6) ended at depths of 17 - 20 inches below the surface. The material recovered suggests similar densities of prehistoric and historic material in these strata as in the corresponding strata in test unit C, although fewer artifacts were recovered since only a sample of these strata was screened. The only prehistoric artifacts recovered from the fill were a chert scraper (Plate 6) and a lithic flake.

The "plow zone" stratum in this unit corresponds to stratum #7 on the profile drawing. It was excavated in two levels, the first of which was slightly mottled with the overlying orange sandy fill. The prehistoric material recovered from this stratum consists of 17 pieces of lithic debitage and a denticulate-edged scraper (Plate 8). Only a small amount of marine shell was recovered. Very little historic period material was recovered from this stratum. This included a single red earthenware sherd and three pieces of dressed stone which had holes bored through it and is of uncertain function. A small amount of coal was also

recovered. Underlying the "plow zone" stratum in this unit was a 12-24 inch thick stratum of yellow/orange sand, the topmost 2-5 inches of which were mottled with the overlying material. These strata are indicated as #8 and #9 on the profile drawing and were excavated as strata IVa-c. Two pieces of lithic debitage were recovered from the mottled level and a denticulate-edged bifacially worked tool (Plate 10) and an additional piece of debitage were recovered from the immediately underlying level of the yellow/orange sand. The third level yielded a single chert chip, possibly naturally fractured. Very little marine shell was recovered. Only a single historic period artifact, a metal washer, was recovered from the yellow/orange sand. The reddish clayey silt subsoil stratum was exposed at the base of the unit.

#### Test Unit E

As noted above, the backhoe was used to remove the humus and fill strata at the location of test unit E. The exposed stratum was a black/gray silty sand. This stratum, excavated as stratum IIa (see profile stratum #9), was darker than the underlying soil and only 1/2-1 inch thick. This stratum was not present in the northeastern portion of the unit (the portion closest to unit D, in which it was also not present). This stratum yielded no prehistoric material. The historic period artifacts consisted of a single pearlware sherd and a small amount of coal and brick fragments. A small amount of marine shell was also recovered.

The underlying brown silty sand, 5 - 7 inches thick, (excavated stratum IIb - profile stratum #10) corresponds to the "plow zone" stratum excavated in units D and E. This stratum yielded the highest density of prehistoric artifacts recovered from site B, including 24 pieces of lithic debitage and a black chert, bifacially worked knife (see Plate 9). A large quantity of what appears to be fire cracked and fire affected rock was also recovered. The only historic period artifacts were a few red brick fragments. However, the eight mammal bone fragments include two larger pieces which appear to have been sawn. The amount of marine shell was moderate, although the density was not as high as that in some of the fill strata excavated in test unit C. Underlying the "plow zone" stratum was a deposit of yellow/orange sand, the top 2-3 inches of which were mottled with the overlying brown soil. The mottled zone was excavated as stratum IIIa (profile stratum #11) and the remainder of the yellow/orange sand as stratum IIb-d (#12). This stratum yielded a total of nine pieces of lithic debitage. The highest density (five pieces) was recovered from the first level underlying the mottled zone. Only a few pieces of marine shell and fire cracked rock were recovered. As was the case in test unit D, this stratum yielded almost no historic period material. The only artifact was a single nail fragment from the lowest excavated level. Two small pieces of coal were recovered from each excavated level below the mottled zone. At the base of the deposit of yellow/brown sand, the sand appeared to be a grayish tan color. This was excavated as stratum IVa (profile stratum #13). No cultural materials were

recovered. This was underlain by the reddish brown clayey silt subsoil stratum at approximately 4 feet below the surface.

#### Test Unit E Extension

After excavation of test unit E was completed we noted that while stratum IIb (#10) was at a depth comparable to the corresponding stratum (III - #7) in test unit D, the comparable test unit C stratum (#14) appeared to be some two feet lower, even though the latter unit was only several feet to the southeast. Therefore, test Unit E was extended some 33 inches to the south to further examine the slope of this stratum. The results (see profile - Appendix A) suggest that the stratum dips sharply to the southeast beginning in the southeastern portion of test cut E extension. The south profile indicates that the surface of the underlying orange sand stratum drops some 14 inches from west to east. The top of this stratum is at approximately the same elevation in the southeast corner of unit E extension as in the northwest corner of unit C. However, the top of the "plow zone" stratum at the latter location is some eight inches lower than in the southeast corner of unit E extension. The difference is accounted for by the greater thickness of this stratum in unit E.

#### Backhoe Trench E

Backhoe trench E was excavated to remove the fill deposits in order to permit further testing of the underlying strata. Prior to excavation of the trench, we had noted what appeared to be a mound of cinder and ash, covered with vegetation, at this location. While the fill was being removed the backhoe encountered a historic period feature. This was a basin with concrete walls and a brick floor. Stones appeared to have been set into the concrete at the top of the basin wall. The "walls" of the basin sloped inward so that the basin was smaller at the bottom than the top. The maximum dimensions of the ovoid-shaped basin at its top were approximately seven feet east-west and six feet north-south. During excavation we noted that the basin was filled with cinder and ash. No artifacts were noted. Most of the basin was removed to expose the underlying strata. However, the north wall remains intact. The walls rested on a floor composed of a single course of four inch thick brick. The vertical height of the basin, including the brick floor, was approximately 32 inches. The top of the basin appeared to be located immediately below the pre-excavation surface. The brick floor appeared to lie on top of or within the "plow zone" stratum discussed above. We did not determine whether or not the feature was built while this surface was exposed and the fill deposited around it at a later date, or whether the basin was constructed in a pit dug through the landfill. The function of the basin is uncertain. However, it may have been used to burn trash from the William Brown house, formerly located east of site B.

### Backhoe Trench F and Test Unit F

Backhoe trench F was excavated along the northern boundary of the property. The profile of the backhoe trench, which was examined prior to excavation of the test unit, indicated that the stratigraphy in this area was different than that encountered further to the south. The uppermost 10-12 inches, (strata #2-7 on the unit F profile) consisted of layers of sand and cinder and ash. The underlying stratum consisted of gray/brown silty sand, (profile stratum #8) which appeared to be different than the "plow zone" stratum excavated in the other units. The orange/brown silty sand (profile stratum #9), which lay between the gray/brown silty sand and the red clayey silt subsoil stratum also appeared to be different than the yellow/orange brown sandy subsoil encountered in the other units. Test unit F, measuring 2 1/2 by 2 1/2 feet was excavated into the north wall of backhoe trench F in order to test strata #8 and #9. The overlying sand and ash strata were not screened.

Profile stratum #8 was excavated in two levels (stratum IIa and IIb). No prehistoric artifacts were recovered. The first level had a much higher density of historic period material than the second. The artifacts recovered include whiteware ceramic sherds, wire nails and wood screws. Profile stratum #9 was excavated as stratum IIIa. This stratum also did not yield any prehistoric artifacts. The density of historic period material was less than that recovered from the overlying stratum.

### Site B Shovel Tests

Four of the five Stage II shovel tests were placed west of the test units to ascertain whether there are any concentrations of prehistoric material in this area. All four of these tests encountered stratigraphy similar to that in test units D and E and most of the Stage I shovel tests. Several strata of fill overlay a stratum of brown silty sand (the "plow zone" stratum), which was underlain by yellow/orange sand. The "plow zone" was encountered in these tests at depths of from 21-28 inches and was 6-11 inches in thickness. The fill strata from test N175W165 yielded a projectile point of the Late Woodland Levanna type (Plate 4). However, no other prehistoric artifacts were recovered. None of the fill strata yielded dense deposits of historic period artifacts. No prehistoric artifacts were recovered from the "plow zone" strata or the underlying sand in these tests. The "plow zone" stratum also yielded few historic period artifacts.

An additional shovel tests (N212W149) was placed north of the project area. The surface elevation in this area is some 3 - 4 feet above that at the test locations further to the south. The test was located behind an out-building. Strata of what appeared to be fill were encountered to a depth of 30 inches. Excavation could not be continued below this depth because of the presence

of tree roots.

### Site B - Summary

The stratigraphy of the site B test units and shovel tests suggests that at some period in the past the land had been under cultivation, leading to the development of the stratum which has been referred to as a "plow zone". The land may not have actually been plowed, however. Since the area tested was at the rear of a house built by the family which owned the shipyard, it is possible that this area was cultivated for use as a "garden". This cultivation apparently resulted in the incorporation of prehistoric artifacts into this stratum. These artifacts may have been associated with a site or sites present in an "A" or "B" soil horizon which was present prior to the cultivation and/or at the top of the underlying yellow/orange sand stratum. At this time the grade may have sloped downward gradually from north to south and east to west as indicated by the elevations of the "plow zone" stratum in units D and E and the shovel tests. The topography of the bluff edge area in the vicinity of unit C was probably different than at present. The unit C and E extension profiles suggest that there may have been a small "gully" in this area, accounting for the sudden drop in grade of the "plow zone" stratum and the underlying yellow/orange sand.

There may have been an interval between the time that the land was under cultivation and the deposition of the fill. During this period the thin humic level noted in unit E may have developed. At some point, the area was apparently graded, leading to the deposition of 1 1/2 - 2 feet of fill in the greater part of the area. As noted in the discussion of site A, the fact that the fill strata appear to consist of a mixture of the soil types which comprise the natural stratigraphy suggests that the fill derived from the grading of the immediate area and was not brought in from a different location. It is possible that the soil used to raise the grade in the southern and western portions of the project area derived from a higher area in the northern portion (near the location of test unit F). The original "plow zone" and underlying yellow/orange sand may have been removed from the vicinity of unit F with later fill deposited to restore the grade. In any event, the latter area appears to have been disturbed. Furthermore, the absence of the humic layer overlying the "plow zone" at the locations of unit D and the northern portion of unit E suggests that this layer (and possibly the upper portion of the "plow zone") was removed during the grading operation. At the location of test unit C, the grading operation resulted in the filling in of the "gully". The fact that the fill immediately above the "plow zone" stratum in unit C consisted mainly of soil types suggestive of the "natural" plow zone and humus levels, suggests that this gully may have been the first to be filled, with this fill material deriving from the top of the pre-filling surface, and the uppermost fill material including more of the yellow/orange sand and reddish clayey subsoil material.



The historic period artifacts recovered from the fill, as well as the relatively few historic period artifacts derived from the "plow zone" stratum suggest that the filling occurred in the late-19th or early 20th century, a period contemporary with the occupation of the house which stood on this property. It is also possible that some of the fill material derived from the excavation of the foundation of this house.

Both the fill strata, the "plow zone" and to a lesser extent the underlying orange sand contained prehistoric artifacts, the majority of which consisted of lithic debitage. The fill strata yielded a total of 45 pieces of lithic debitage, one of which was utilized. One lithic tool was recovered. This fill material also yielded 10 ceramic sherds and a Late Woodland Levanna type projectile point.

The "plow zone" stratum yielded 43 pieces of debitage, one of which was utilized. Three lithic tools were recovered. In contrast to the fill deposits, this stratum did not yield any ceramic sherds. These totals do not include the humus stratum in unit C, which apparently included some of the overlying fill.

The orange/yellow sand stratum underlying the "plow zone" (including the mottled zone) yielded a low density of prehistoric material. This included 11 pieces of lithic debitage and one lithic tool.

Assuming that the fill material derived from the immediate vicinity, the data suggest the presence of more than one prehistoric site. The fill contained 10 ceramic sherds and a Levanna point, suggesting the presence of a Woodland period site or sites at the location from which the fill was taken. The "plow zone" and orange sand strata, which contained a similar amount of prehistoric artifacts, yielded no ceramics. Although no diagnostic artifacts were recovered from this stratum, the presence of a preceramic component is a distinct possibility.

Fifteen of the lithic flakes recovered from the fill (24.6%) and twelve from the "plow zone and orange/yellow sand ( 19.0% ) could be identified as tool edge resharpening flakes. Most of the other debitage from both fill and sub-fill strata consisted of small flakes. As noted previously these data are consistent with an identification of the sites in the area as camp sites.

One projectile point and six other lithic tools (in addition to two unmodified flakes which were identified as having been utilized) were recovered from site B. The projectile point and two other tools were recovered from the fill deposits, three tools were recovered from the "plow zone" stratum and one from the underlying yellow/orange sand. Of these, only the projectile point and a gray chert scraper from the fill deposit have been carefully worked. The other tools appear to be what have been referred to as "ad hoc" tools (Boesch n.d.). These are flakes or blocky fragments on which a part of the edge has undergone



further modifications to permit use as a tool. It is likely that these edge modifications were made as required to fill an immediate need. The tool was then discarded. Although the sample is small, the presence of such tools can also be taken as an indication that the occupations at these sites were of a short term nature.

Of the 61 pieces of lithic debitage recovered from the site B fill strata, 45.9% were identified as jasper, 39.3% as chert and 14.7% as argillite. Of the 64 pieces of debitage which were excavated from the sub-fill strata 28.1% were jasper, 59.4% chert and 10.9% argillite, with one quartz flake (1.6%) also recovered. Thus, the lithic materials percentages for the sub-fill strata are more similar to that from the site A fill deposits than to the overlying fill deposits from site B.

It is not possible to determine how much of the marine shell or fire-cracked rock which was recovered from the "plow zone" and fill strata were associated with the prehistoric and how much with the historic period occupation of the area. It is possible that at least some of the fire-cracked rock derived from activities associated with the burying of trash in the concrete basin in the vicinity of units C and E. Although unit E yielded almost no historic period artifacts from the "plow zone", 742 grams of shell were recovered, suggesting that at least some of the shell was associated with the prehistoric occupation. Although the yellow/orange sand yielded a small amount of prehistoric lithic material, only a few shell fragments were recovered.

The results of the Stage I and Stage II testing indicate that the prehistoric material in the "plow zone" and underlying yellow/orange sand is concentrated in the area of the test excavations. Shovel testing to the west suggests that the concentration falls rapidly west of the test units. North of unit D the artifact-bearing deposits appear to have been removed. The deposit most likely continues at least five feet east of unit C as indicated by the results of Stage I test N155W136. However, the fact that no prehistoric artifacts were recovered from Stage I shovel test N168W136 suggests that the artifact concentration falls rapidly north of the location of the former test.

The "plow zone" and underlying yellow/orange sand strata in area B are protected from some forms of further disturbance by the overlying fill. However, the Woodvale-by-the Sea site plan (see Appendix D) indicates that construction of a retaining wall would disturb these deposits in the western portion of the site.

#### IV SITES A AND B - ASSESSMENT OF NATIONAL REGISTER ELIGIBILITY

According to the National Register of Historic Places eligibility criteria, significant archaeological resources are "districts, sites,....and objects of State and local importance that possess integrity of location, ....and association, and...that have yielded, or may be likely to yield, information important in prehistory or history" (36 CFR Part 60).

The landfill deposits, which yielded all of the prehistoric material recovered from site A and a part of that recovered from site B, cannot be considered to possess integrity of location or association. This lack of integrity, in turn, substantially reduces the information which can be recovered from these deposits. While it is likely that the material derives from the immediate area, this cannot be confirmed. In addition, contextual information from such deposits is completely lacking. It cannot be determined whether the material included in each of these deposits represents one or several prehistoric temporal/cultural components. Furthermore, since historic and prehistoric components in these deposits are mixed together it cannot be determined (except for the sawn bone) whether the faunal material was deposited during the prehistoric or historic period occupation. Where the material from a prehistoric site consists largely of lithic debitage, one type of analysis which can produce meaningful data is a breakdown and intersite comparison of lithic materials preferences. However, the usefulness of such data is greatly reduced if the material cannot be assigned to a particular temporal/cultural period.

Many of the above comments also apply to the material which was recovered from the site B brown silty sand stratum. This stratum most likely represents a soil which was plowed or otherwise cultivated. This can result in the mixing together of more than one temporal/cultural component which may have been present on the site. Whether or not such mixing occurred or whether the material represents a single occupation could not be determined, however. Because of the comparatively low density of material, the test excavations did not produce any diagnostic material from this deposit. Furthermore it appears that this stratum was truncated in part of the site area, and completely removed in others.

It is likely that the material from the "plow zone" stratum at site B represent the remains of a small, temporary camp site. This area appears to have been less intensely occupied than other camp site locations reported from Staten Island. Published material for the Sharrott Estates site (Lenik 1987), for example, indicates that 771 pieces of debitage were recovered from 13 three by three foot test units (117 square feet of excavated surface area). Thus, there were 6.6 pieces of debitage per excavated foot of surface area. The Sharrott Estates report indicates that the "prehistoric artifacts were most common in the

upper 12 inches" with decreasing amounts of material below this depth. These data suggest a total artifact density of some six pieces of debitage per cubic foot. Moreover, in a portion of the site the density was actually higher than this since the report states that most of the material was recovered from eight of the squares placed in this area. although a separate artifact total is not given for these squares. In contrast, sixty-four pieces of debitage were recovered from the Woodvale site B sub-fill deposits in excavations covering 47 square feet, only 1.4 per excavated square foot. The density of lithic debitage in the "plow zone" stratum was 3.6 per cubic foot in unit E, 2.1 in unit D and 1.0 in unit C (an average of 2.2 for the three units). The maximum density for any of the excavated levels in the underlying yellow/orange sand was 0.8 in stratum IIb, unit E.

In some instances, plow zone and disturbed deposits can yield significant information, primarily pertaining to site distribution (Talmadge, Chesler et al. 1977). The presence of the disturbed sites on the Woodvale-by-the-Sea property, does, in fact add some information to the overall data base on the distribution of sites in Staten Island. However, the amount of disturbance in the area and the relatively low density of material suggests that limited additional information could be obtained. The most intact of the artifact bearing deposits, the "plow zone" and underlying yellow/orange sand, in site B appears to be confined to an estimated area of some 700 square feet, as defined by the Stage I and II testing and by the site topography. The Stage II test units therefore represent excavation of approximately 6.7% of this area.

### Summary

The test excavations indicate that there were most likely several prehistoric camp sites located in the vicinity of the project area. The large amount of historic period disturbance in the area has caused substantial disturbance of these sites. Much of the material recovered was contained within fill material which probably derived from the grading of the area. These deposits do not retain the integrity of location or association required to qualify them for National Register eligibility.

Within the area defined as site B, a partially intact stratum representing formerly cultivated land contains what is most likely the remains of a prehistoric camp site with a relatively low intensity of occupation. The combination of the disturbance inherent in such deposits and the low artifact density indicates that this deposit is not National Register eligible.

In summary, the results of Stage II testing indicate that neither site A nor site B is eligible for inclusion on the National Register of Historic Places.

## V THE BROWN SHIPYARD

The stage I report indicates that Abraham C. Brown operated a shipyard on the property beginning in 1873. Brown (1935) dates the start of the shipyard operation to 1870 and notes that it was the last of the Tottenville shipyards to close, being operated as the A.C. Brown and Sons shipyard as late as 1935. Joline (1950) refers to the late 19th century Tottenville shipbuilding industry as comprising "two ship building yards and five marine railways". The first of the shipyards was founded in the mid-19th century by Jacob Ellis near the foot of Main Street. The Brown shipyard was the second of the two mentioned by Joline. These were apparently larger facilities than the marine railways. The latter are described by Joline (1950:31) as consisting

of two sets of iron wheels, mounted on parallel tracks extending out into deep water. On these wheels were racks or cradles sufficiently large to hold any one or two of the local flotilla. At high tide this contraption was lowered until it became sufficiently submerged to allow sloops or small schooner (sic), to be floated into the cradle, where they were secured and tediously drawn out to dry land by a horse operated windlass. Here the boat rested until the job of overhauling was complete.

The Stage I report included several maps showing the Brown shipyard. Copies of these maps are included here for reference (Figures 3-7). The earliest of these is the 1898 Robinson atlas (Figure 3) which designates the shipyard as the "A.C. Brown Shipyard & Marine Railway". The Robinson atlas shows what appear to be the marine railway tracks in the southwestern portion of the shipyard. These tracks are not shown on the 1911 Borough of Richmond Topographic sheet or on the 1917 Sanborn map. The latter map indicates the presence of "vessels on ways" in the area of the shipyard previously indicated as containing the marine railway tracks. It is likely that the marine railway was used to remove vessels from the water in the early period of shipyard operation.

We interviewed a local Tottenville resident, Mr. James Gelling, who recalled the shipyard operation as it was in the 1920's-1930's period. His recollection was that the southwestern portion of the shipyard contained wooden shipways on which vessels were constructed and then allowed to slide down into the water. The wooden beams and posts visible on the beach in this area are apparently the remains of these shipways (see site map, Figure 2b and Appendix C - references S1-S3, and Plates 11-13). Photographs taken at low tide (Plates 14-15) suggest that the shipway remains extend further to the north than indicated by the map drawn at high tide.

It is likely that after the marine railway was no longer used, ships brought to the yard for repairs were removed from the water

at the location indicated as "shipways" on the 1911 map and as "Dry Dock" on the 1917-1951 Sanborn maps. This facility was located at the location of the dilapidated wooden platform (see site map Figure 2c and Appendix C - references S6 and Plates 18-21). According to Mr. Gelling this platform (or some portion of it) slid out into the water, the ship to be repaired was floated onto it and the ship and platform were then hauled out of the water using a winch. Such a mode of operation is suggested by the configuration of the dry dock as shown on the Sanborn maps. Mr. Gelling indicated that the winch machinery which was used to remove vessels from the water was removed at the time the shipyard went out of business during the depression.

The dry dock platform remains consist of criss-crossing wooden beams secured by metal spikes. Metal plates were noted attached to the underside of several of the beams exposed in the backhoe trenches discussed below. These may have served to facilitate the movement of the platform. The remains of wooden decking consisting of smaller boards is also present (see Plate 14). The remains of upright wooden boards are adjacent to the south side of the platform (Plate 22). Presumably, similar boards were originally present on the northern side. These boards apparently constituted the side of the slip in which the dry dock platform was installed.

The Brown dry dock was apparently of the type known as a railway dry dock. The dry dock traveled down an incline which ran beneath the water and the vessel to be repaired was floated over it. The platform and vessel were then hauled out of the water (Crandall and Sons 1902). The operation was thus similar to the "marine railway" described above. A booklet published by the H.I. Crandall and Sons Company (1902) indicates Tottenville as one of the ports where the company's dry docks were installed although the names of the shipyards are not given. Figures 8a and 8b show two of the Crandall railway dry docks, one of which is shown installed within a slip. It is interesting to note that the shape of the ends of the dry dock platforms in Figures 8a and 8b is similar to that shown on the Sanborn maps (Figure 5-7). The narrower outer portion of the Brown dry dock platform no longer exists, however.

The other existing Brown shipyard remains include three rows of pilings, located between the shipways and the dry dock (see site map - reference S5 and Plates 12; 16-17) which apparently supported the pier shown at this location on all of the historic period maps. South of this pier are what appear to be a row of beams supported on wooden posts which are visible only at low tide (site map - approximate location at reference S5 and plates 14-15). These are probably a portion of the shipways, which apparently extended northward to this point.

North of the dry dock (site map - reference S7 and Plates 23-24) there is an L-shaped double row of pilings which apparently supported another pier, however, this pier is not shown on any of

the maps.

North of the boundary of the Brown shipyard, there is another set of wooden pilings (site map, Figure 2d and Appendix C - reference S11) which apparently supported the pier shown on the 1937 map. This map shows this pier as being within the limits of the A.C. Brown and Sons shipyard. However, Mr. Gelling noted that there used to be another shipyard, which he referred to as the Nash shipyard, immediately north of Brown's. It is possible that this shipyard operated briefly between 1917 and 1937 and was later taken over by the Brown family.

There are two hulks which are visible immediately south of the pier noted above (site map - references S9 and S10 and Plates 25-26). Mr. Gelling noted that these were ships which came into Nash's shipyard for repairs just before the shipyard went out of business. Remains of a third hulk, even more deteriorated than the others were noted on the beach at low tide (site map - reference S8 and Plate 27). Presumably this hulk dates to the same period as the others. The Nash pier and the two hulks located immediately to the south are north of the northern boundary of the property. Furthermore, the site map indicates that all of the remains north of the dry dock (except for a few pilings at the southern end of the L-shaped pier) are outside the boundaries of the project area.

#### Shipyard Backhoe Trenches

As noted in the Stage I report, several feet of fill have been deposited in the area immediately north of the Arthur Kill shoreline. To determine whether any remains of shipyard structures remained intact beneath the fill several backhoe trenches were excavated. The backhoe trenches marked "BH G" on the site map were placed in the area where the 19th and early 20th century maps indicated the shipyard saw mill was located. Several wooden beams and a post were noted beneath the fill (site map, Figure 2b and Appendix C - references S12 and S13 and Plate 28). However, the beams appeared to have been lying on the surface prior to the filling rather than being part of a structure. No other structural remains or deposits were noted at the site of the sawmill. We also excavated a north-south extension to backhoe trench G in order to determine if there were any remains of the early marine railway in this area. No rails were encountered. What may be the remains of a small stone and concrete foundation were encountered at the location (S14) shown on the site map. A four inch thick stone slab was encountered at a depth of approximately four feet below the surface (see Plate 29). This may represent part of the footings for a foundation wall. Only the bottom six inches or so of this wall, which consisted of stones set in concrete, remained intact. Since none of the historic period maps showed a structure at this location and the appearance of the feature suggested a fairly late date of construction, it was not excavated further.



We used the backhoe to investigate the location of the shipyard blacksmith's shop as shown on the historic period maps. (see site map, Figure 2b and Appendix C - reference S15). Although no fill was present at this location, the backhoe removed the overlying humus and debris to expose the subsoil. No remains of the blacksmith's shop were found.

The backhoe trenches marked "BH H" on the site map were placed to remove the fill east of the exposed portion of the dry dock platform. The trench exposed additional deteriorated beams of the platform structure. On the southern edge of the platform there appeared to be a thinner wooden "railing" with a metal "lining" beneath it (site map - reference S16). These "rails" may have facilitated the movement of the platform in and out of the water. The eastern end of the structure was marked by the presence of several upright posts (site map - reference S17). These probably represent the eastern end of the "slip" discussed above. Several feet east of this location, the trench exposed the corner of a wooden platform (site map - reference S18). This platform probably housed the winch machinery used to remove ships from the water. As Mr. Gelling had indicated, there were no remains of the actual winch machinery. Several metal "pins" which were noted in the platform may have functioned to secure this machinery.

The Woodvale-by-the-Sea site plan (see Appendix D) indicate that construction of a retaining wall and a residential structure would result in the removal of the dry dock. Construction of the retaining wall would not affect the location of the exposed portion of the shipways in the southwestern portion of the property. However, the wooden beams appear to continue beneath the sand east of the Arthur Kill beach and could extend to the area of retaining wall construction.

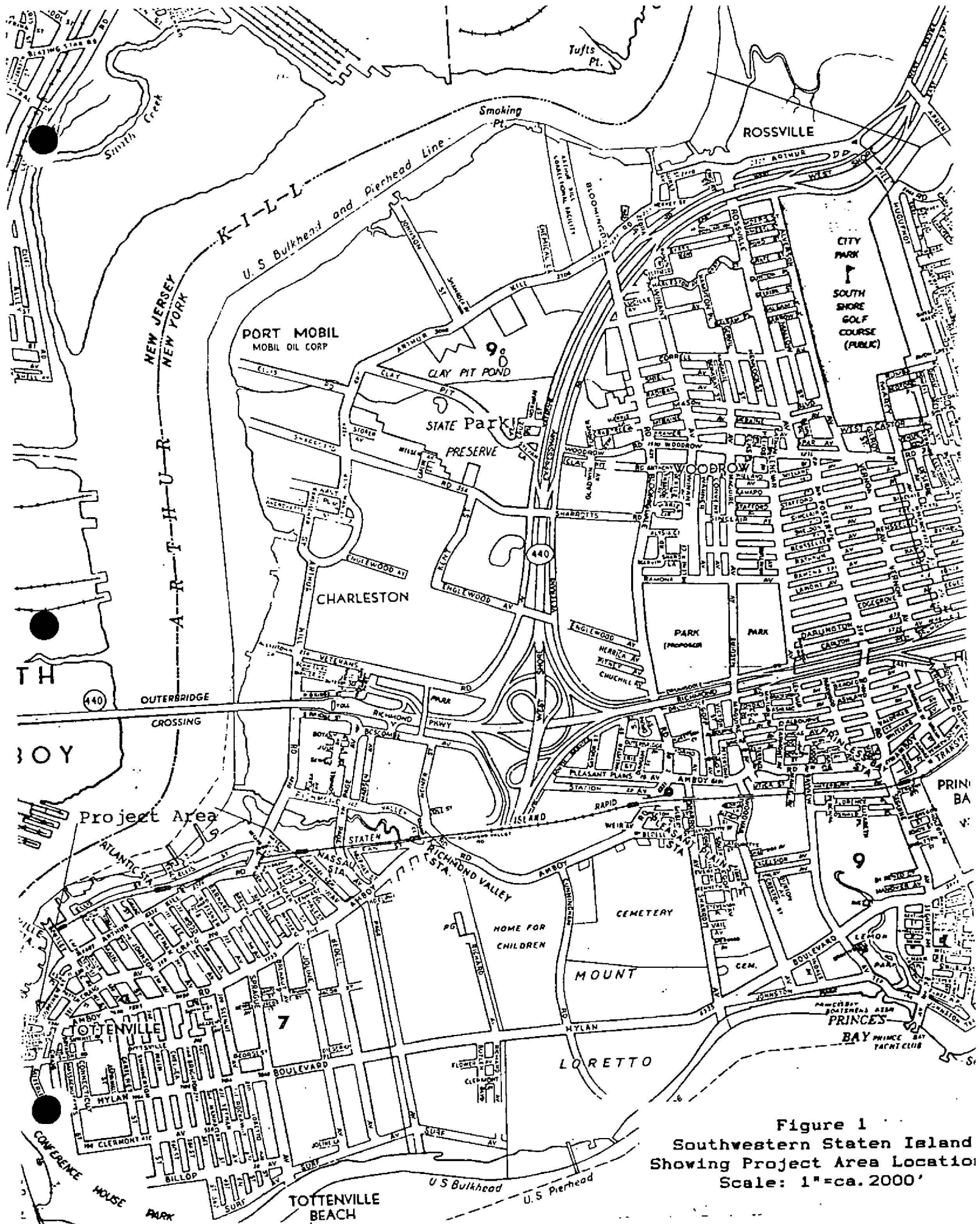
None of the pilings or other remains which extend below the high water line would be removed. However, once the land is sold to individual owners, they could choose to remove these remains. This would constitute an indirect impact of the project.



# REFERENCES CITED

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








## FIGURES

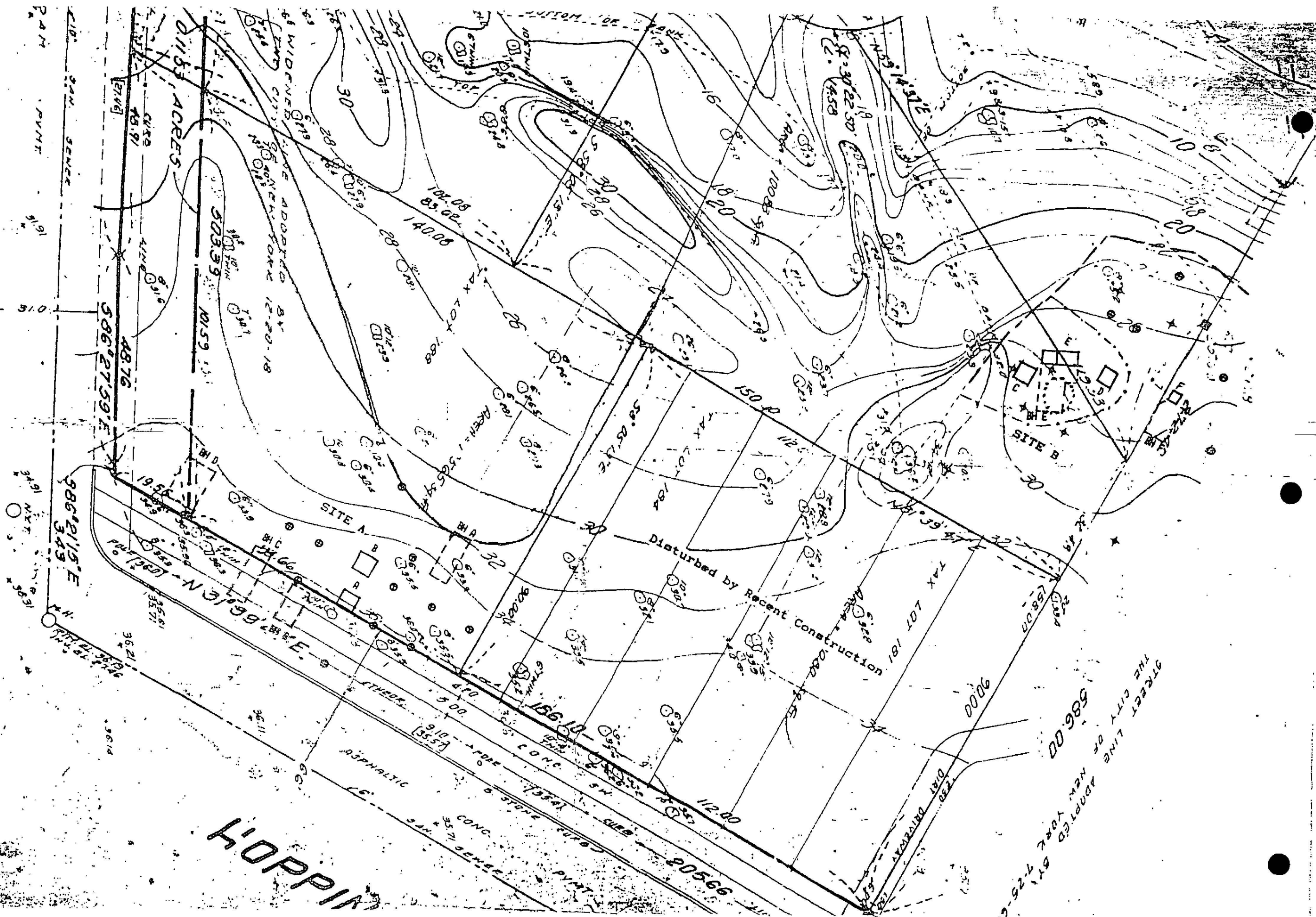


Figures 2a - 2d

WOODVALE-BY-THE-SEA  
Stage II Archaeological Survey  
Site Map  
Scale: 1" = 20'

Key:

-  Test Unit
-  Backhoe Trench
-  Stage II Shovel Test
-  Stage I Shovel Test
-  Edge of Bluff (Site B)
-  Approximate Extent of Basin (Site B)
-  Estimated Extent of "Plow Zone" Deposit (Site B)
-  Wooden Beam (Shipyard)
-  Wooden Post (Shipyard)
-  Stone Slab (Shipyard)





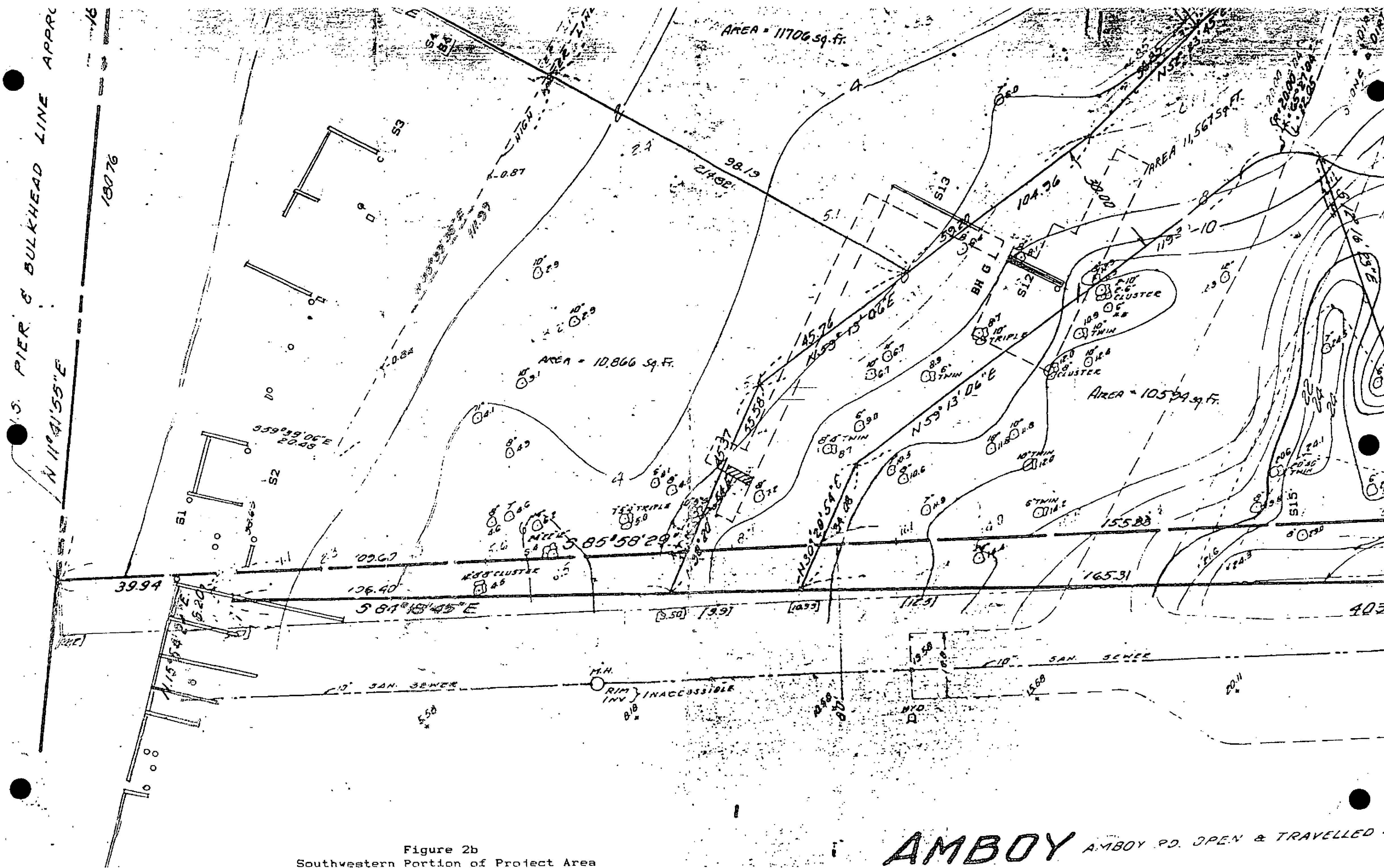


Figure 2b  
Southwestern Portion of Project Area

AMBOY AMBOY RD. OPEN & TRAVELLED F

LINE APPROVED BY THE SECRETARY OF WAR AUGUST 7, 1930  
18076 --- 18190  
N 141° 25' 34" E  
106.10  
147.68

LAND UNDER WATER  
AREA 35,180 SQ. FT.  
0.8062 ACRES

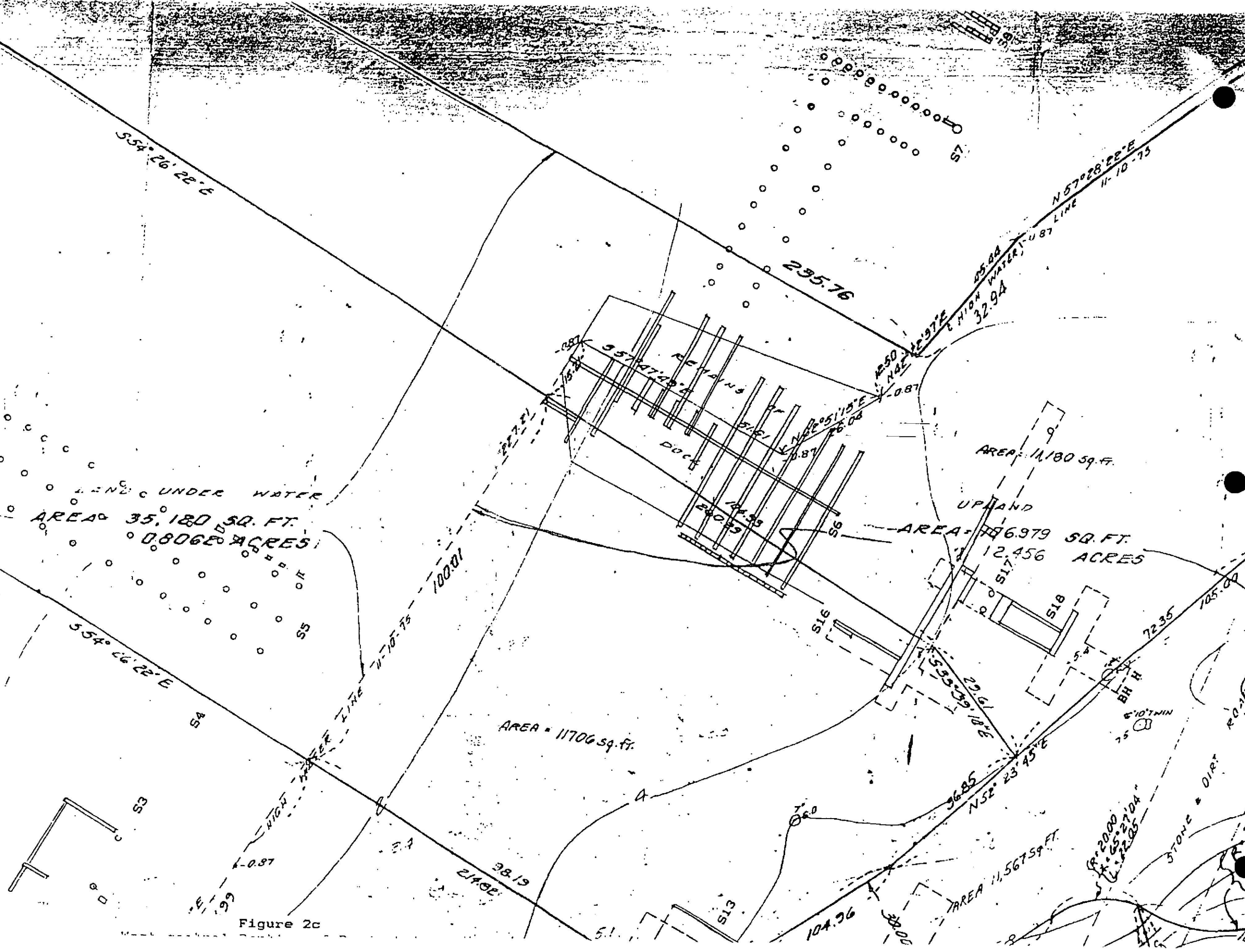


Figure 2c



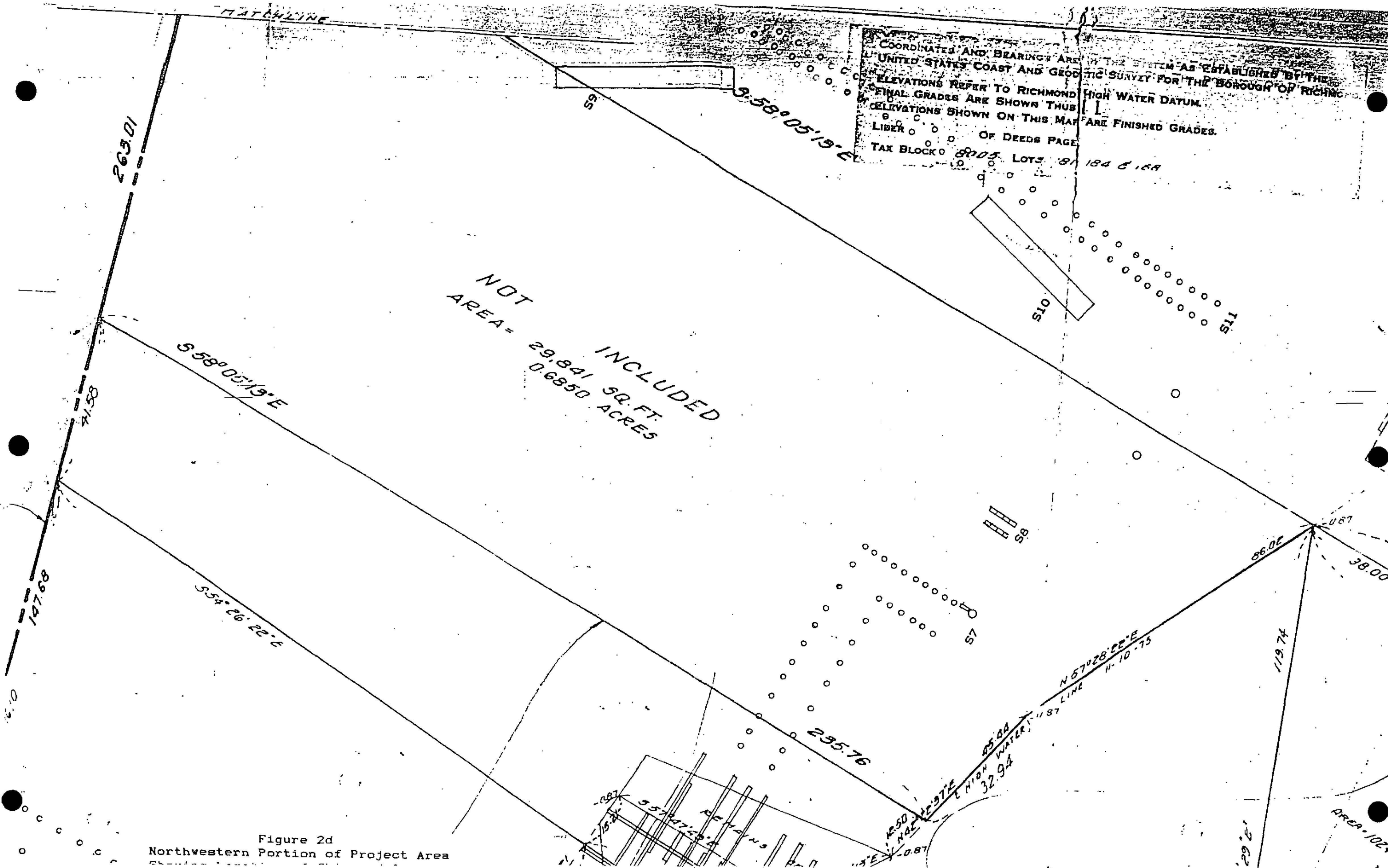


Figure 2d  
Northwestern Portion of Project Area

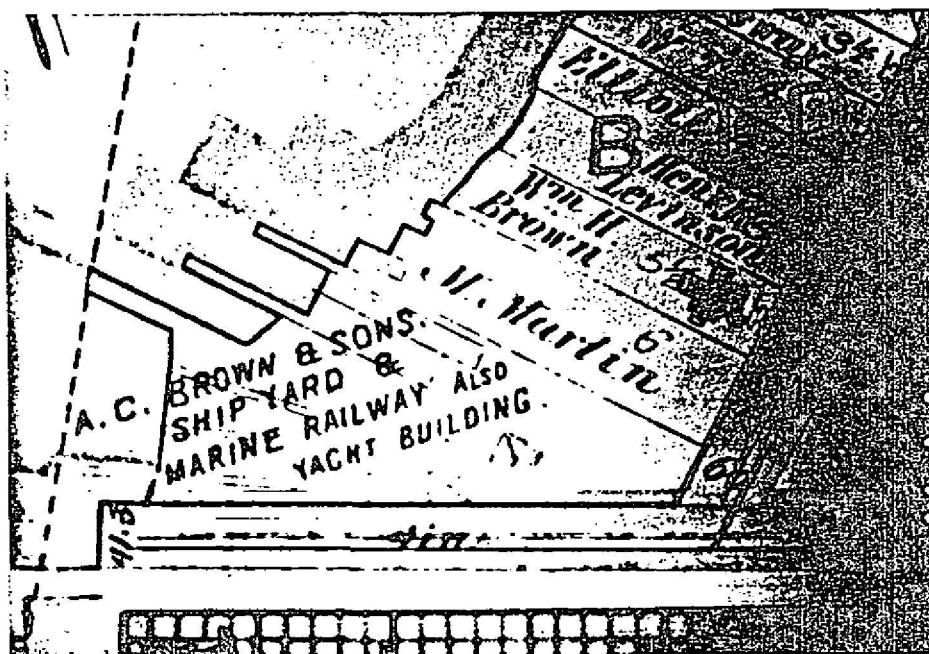


Figure 3  
Source: Robinson 1898, Plate 23  
Scale: 1"=200'

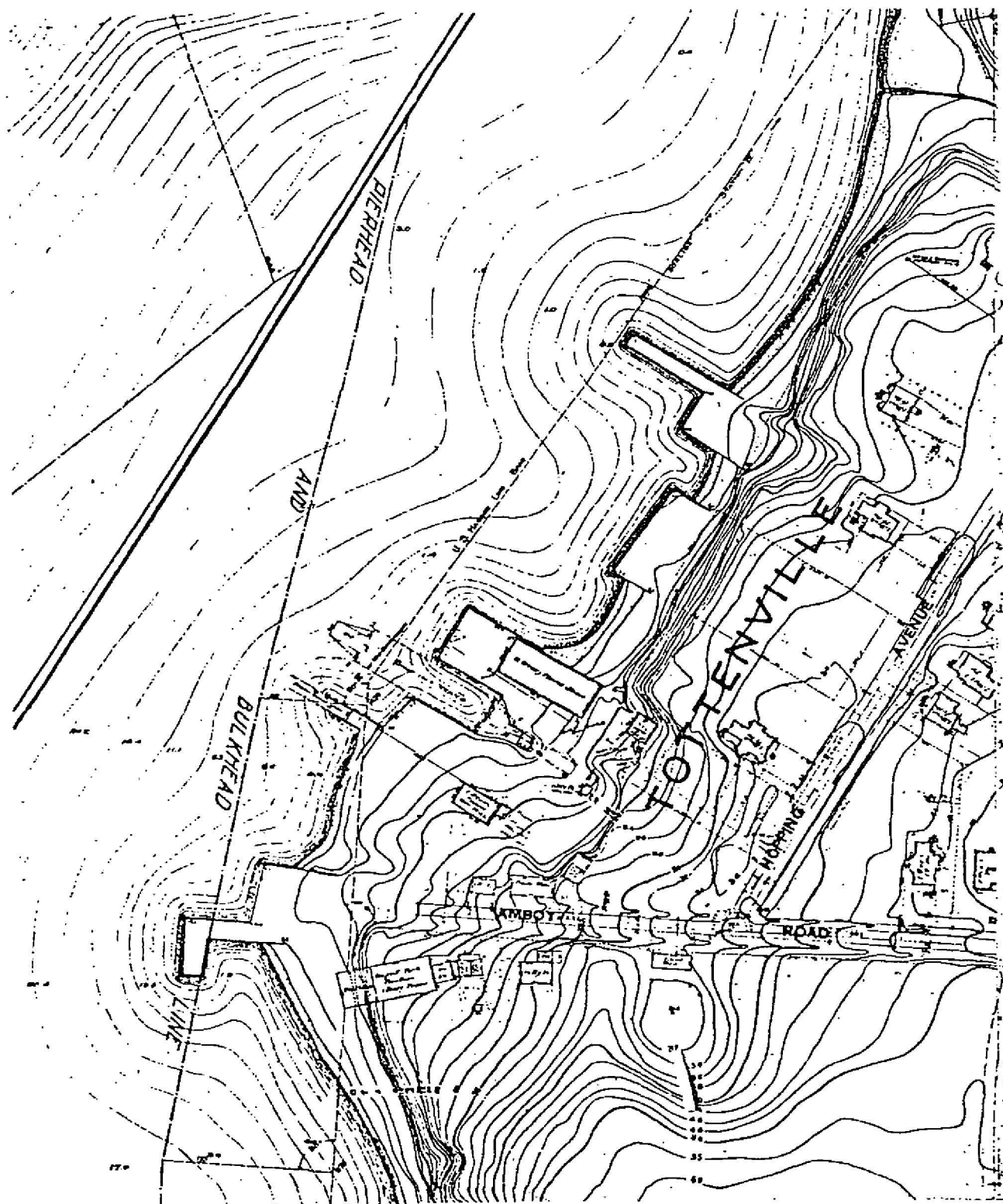


Figure 4  
Source: Borough of Richmond 1911, Sheet 97  
Scale: 1"=150'



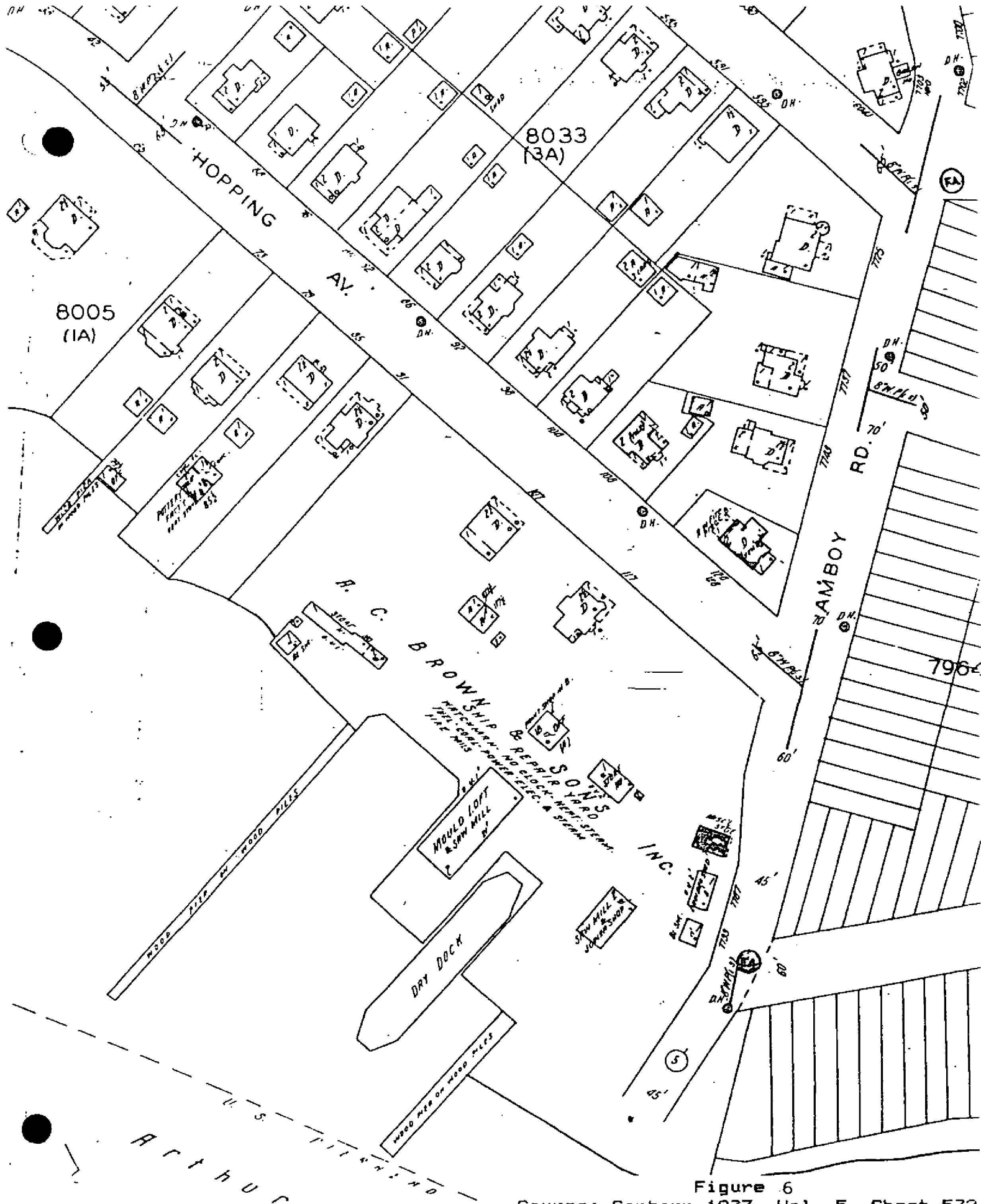


Figure 6

Source: Sanborn 1937, Vol. 5, Sheet 532

Scale: 1"=100'

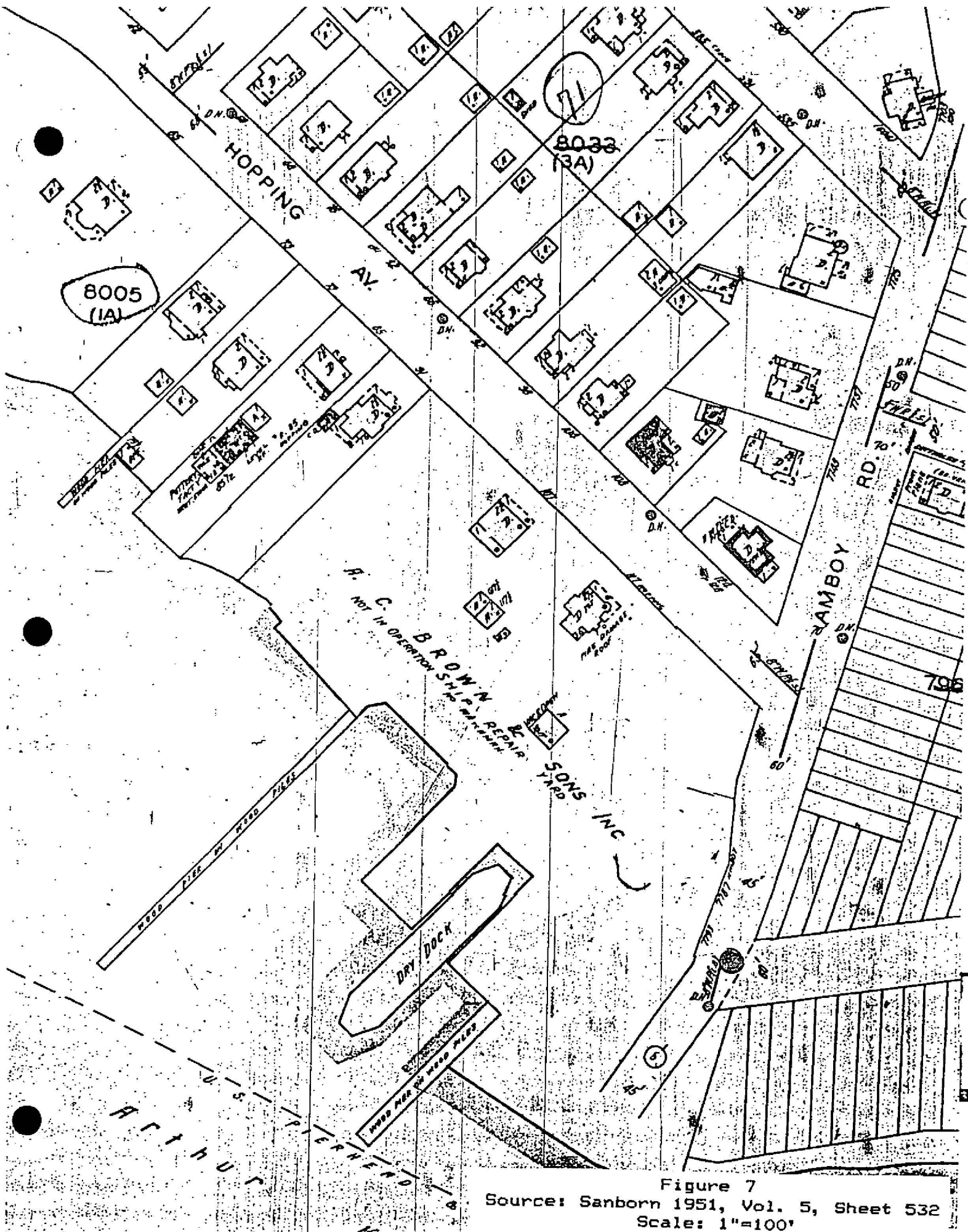
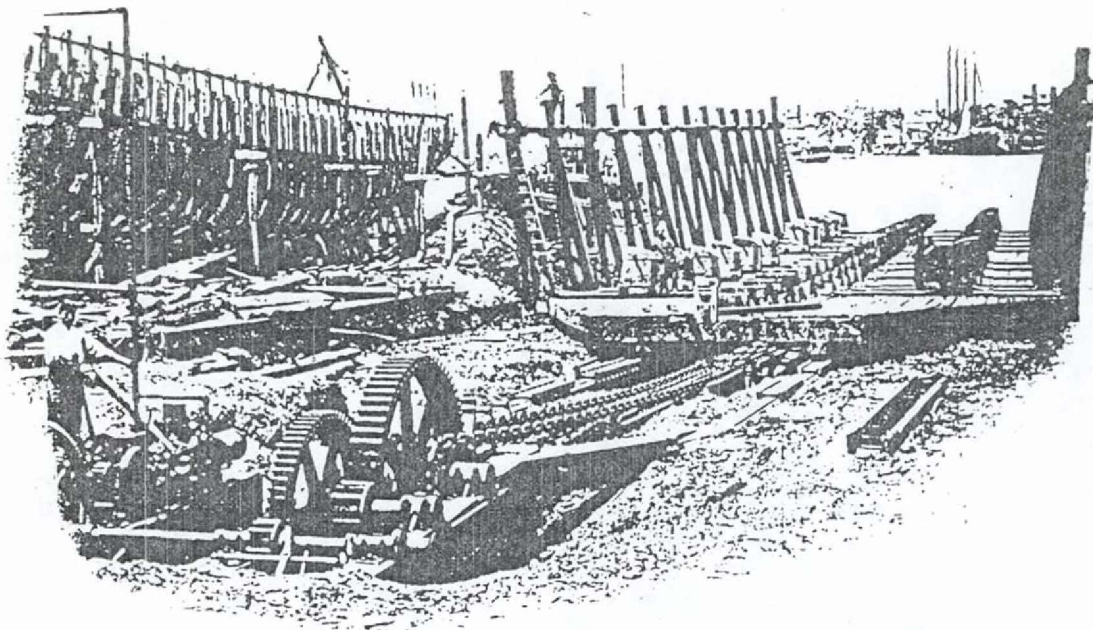


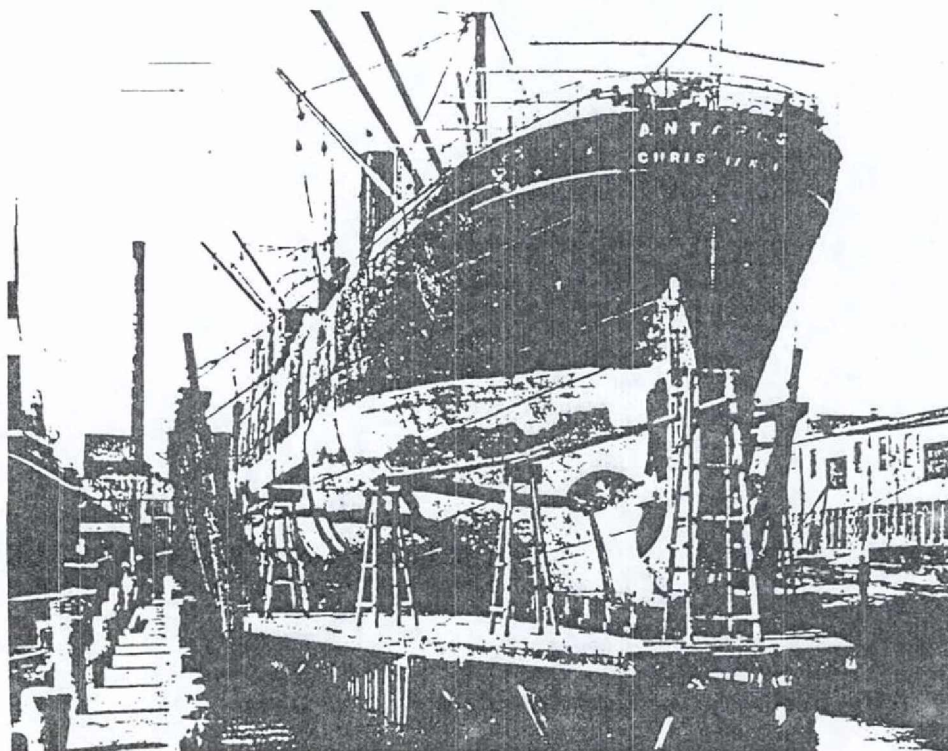
Figure 7  
Source: Sanborn 1951, Vol. 5, Sheet 532  
Scale: 1"=100'





SHIP-YARD WITH 1000-TON RAILWAY DRY DOCK

Figure 8a  
Source: Crandall & Sons Company (1902)



2500-TON RAILWAY DRY DOCK—Note access to Dock and Vessel from adjacent yard

Figure 8b  
Source: Crandall & Sons Company (1902)



PLATES



Plate 1  
Area A - Showing Drop-Off to West  
and Locations of Test Units A and B  
View Southeast

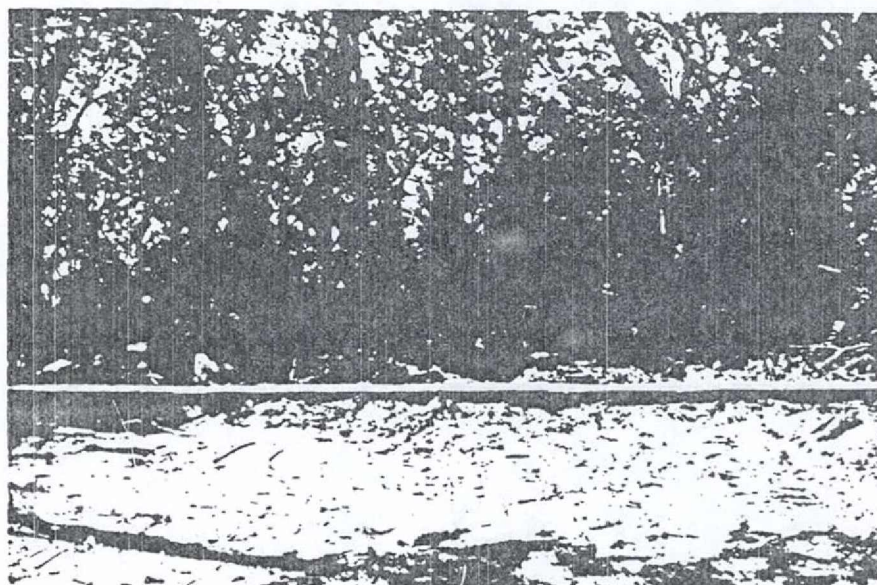


Plate 2  
Disturbed Ground and Retaining Wall  
East of Area B - Dropoff to Area B in Background  
View West

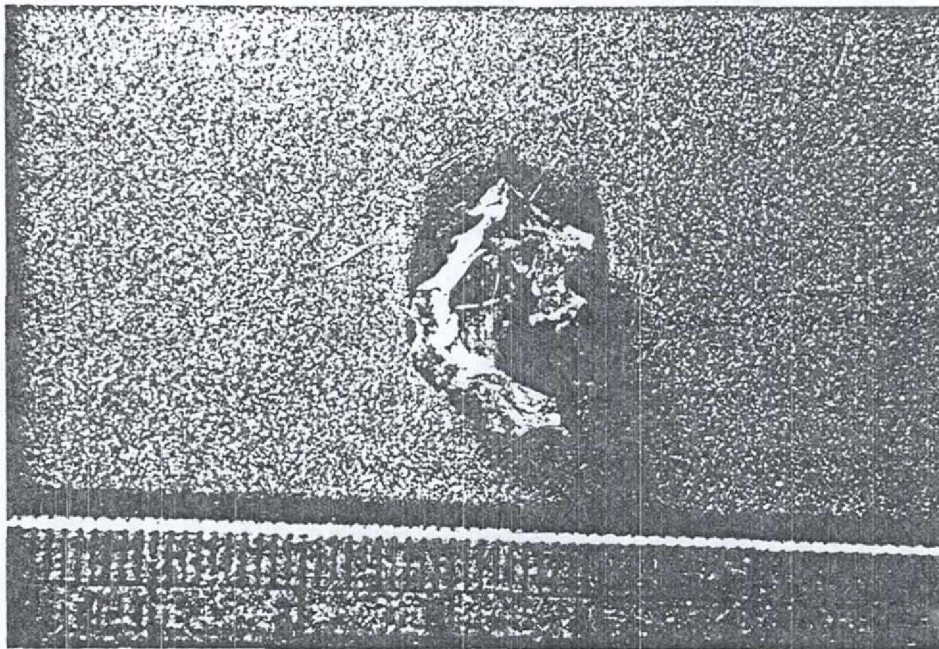


Plate 3  
Artifacts from Site A Landfill Deposits  
Flake with Graver Tip, Yellow/Brown Jasper  
Test Unit B, Stratum IIIIf (#27)



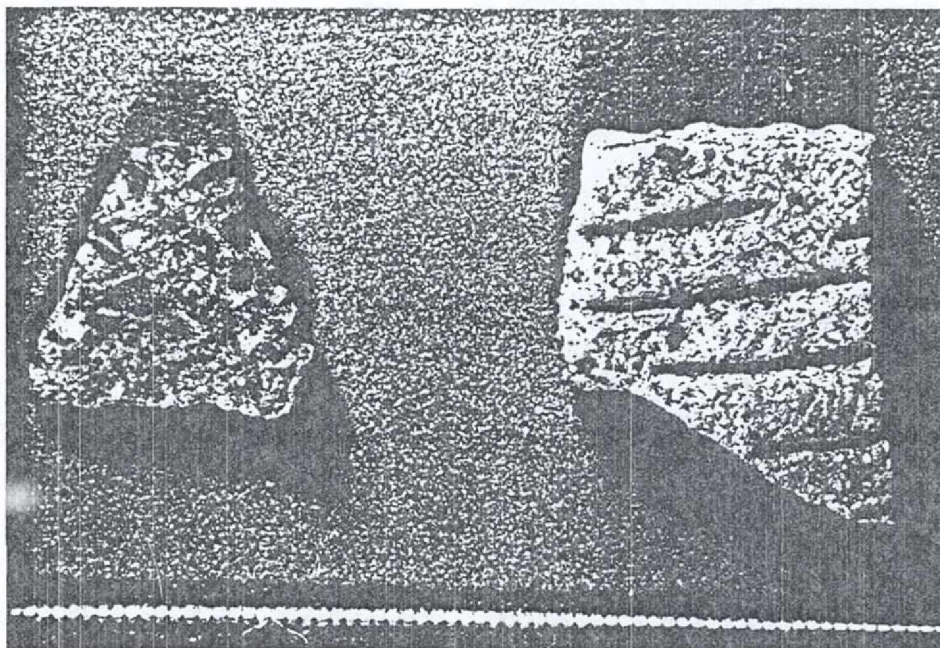


Plate 4

Artifacts from Site B Landfill Deposits

Left: Projectile Point, Levanna, Chert -  
Shovel Test N175W165 (#77/1)

Right: Incised Grit Tempered Ceramic Sherd -  
Test Unit C, Stratum IIa (#31)



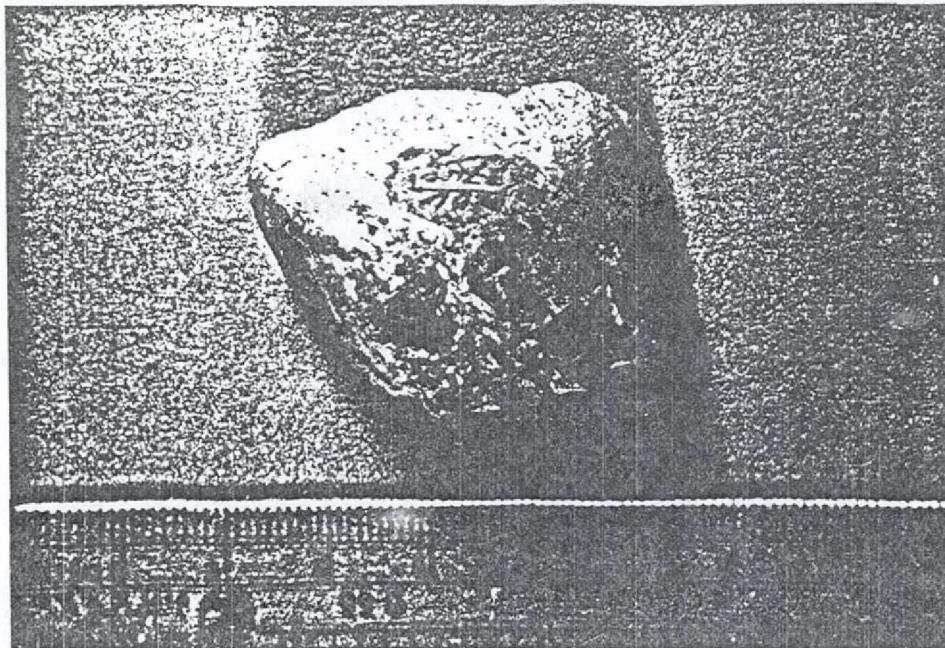


Plate 5  
Artifact from Site B Landfill Deposits  
Denticulate-Edged Scraper, Chert -  
Test Unit C, Stratum IVa (#37)

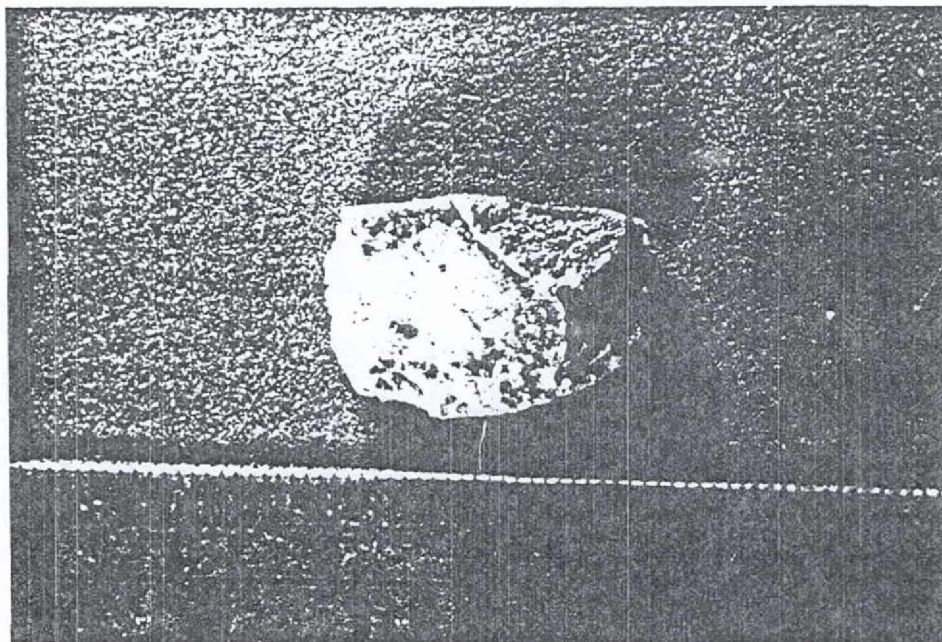


Plate 6  
Artifact from Site B Landfill Deposits  
Scraper, Gray Chert - Test Unit D, Stratum IIa (#40)



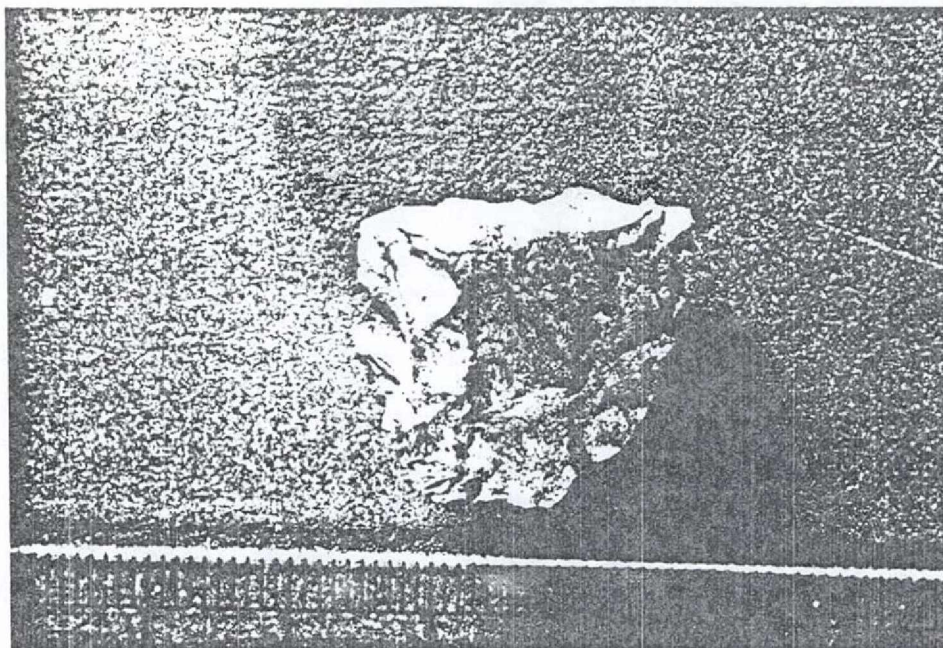


Plate 7  
Artifact from Site B "Plow Zone" Deposit  
Denticulate-Edged Scraper, Yellow Jasper  
Test Unit C, Stratum Vb (#46)

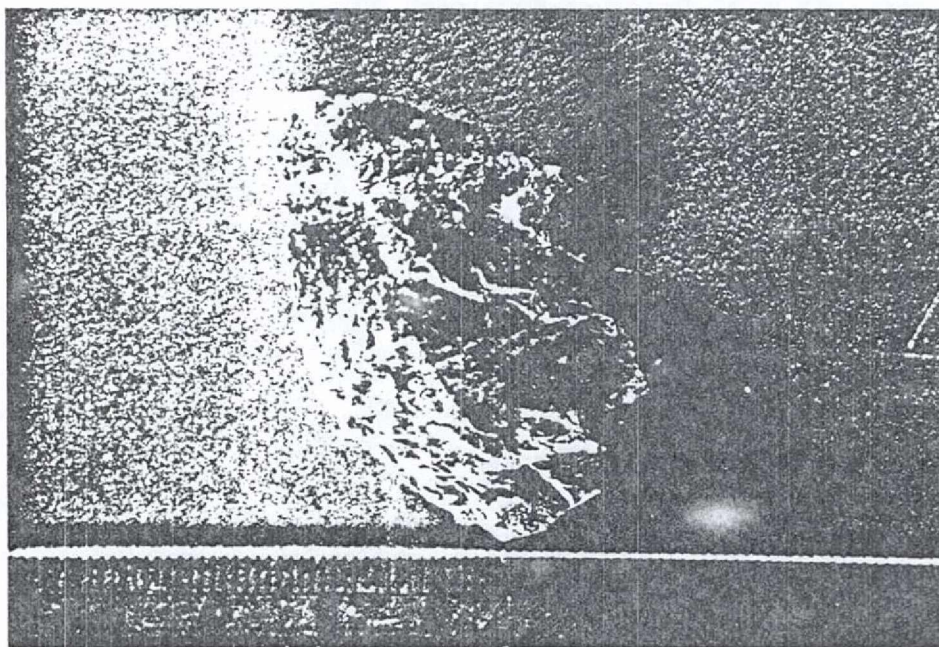


Plate 8  
Artifact from Site B "Plow Zone" Deposit  
Denticulate-Edged Scraper, Argillite  
Test Unit D, Stratum IIIa (#44)



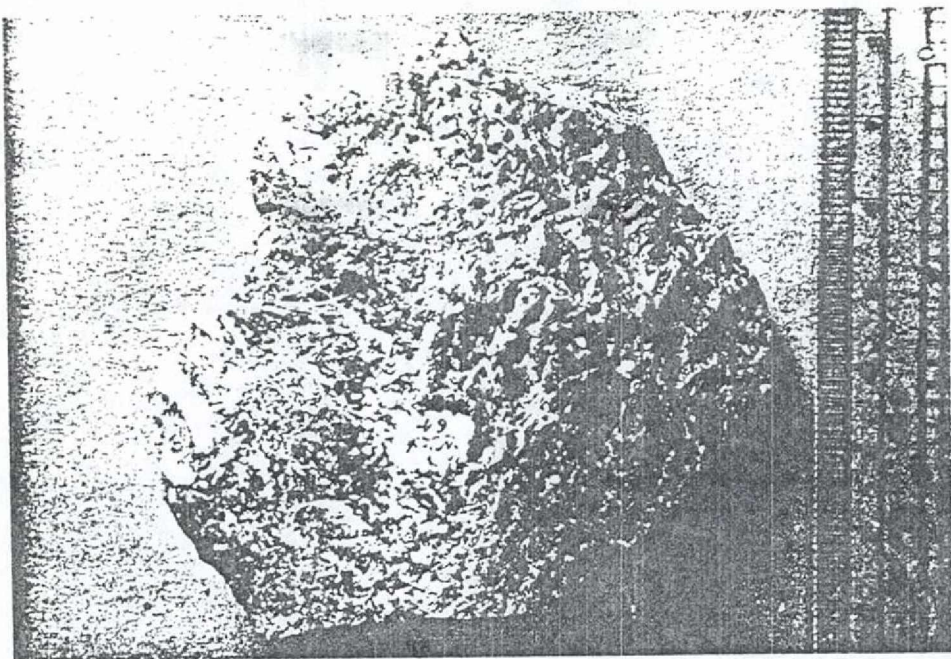


Plate 9  
Artifact from Site B "Plow Zone" Deposit  
Knife, Chert - Test Unit E, Stratum IIb (#64)

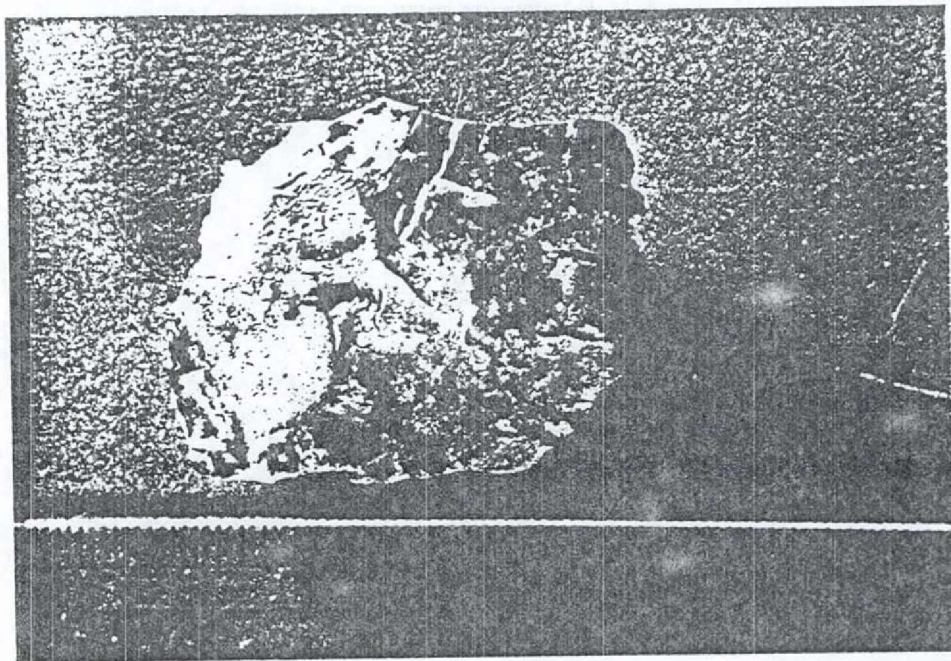


Plate 10  
Artifact from Area B - Yellow/Orange Sand  
Denticulate-Edged Scraper, Chert  
Test Unit D, Stratum IVb (#57)





Plate 11  
Remains of Shipways  
View North from Site Map Reference Point S1

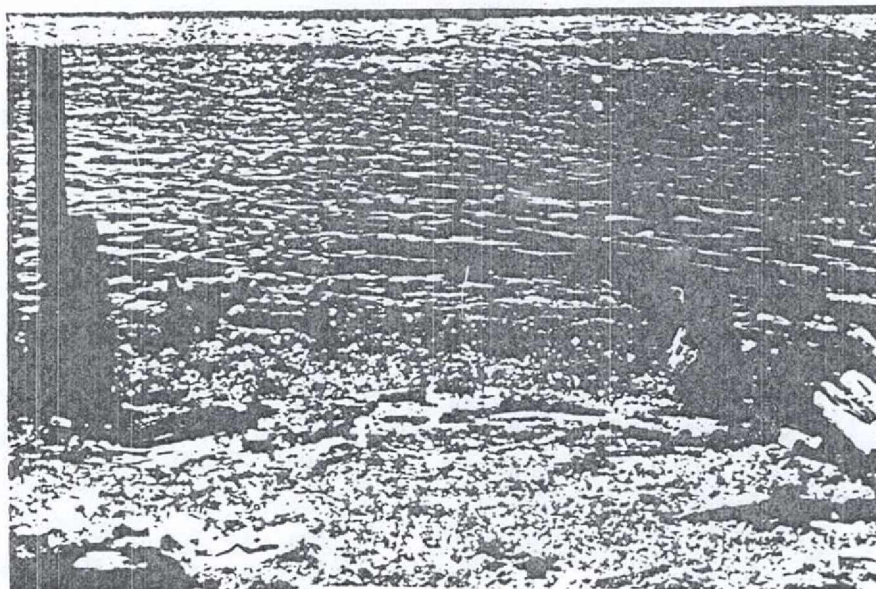


Plate 12  
Remains of Shipways  
View West from Site Map Reference Point S2

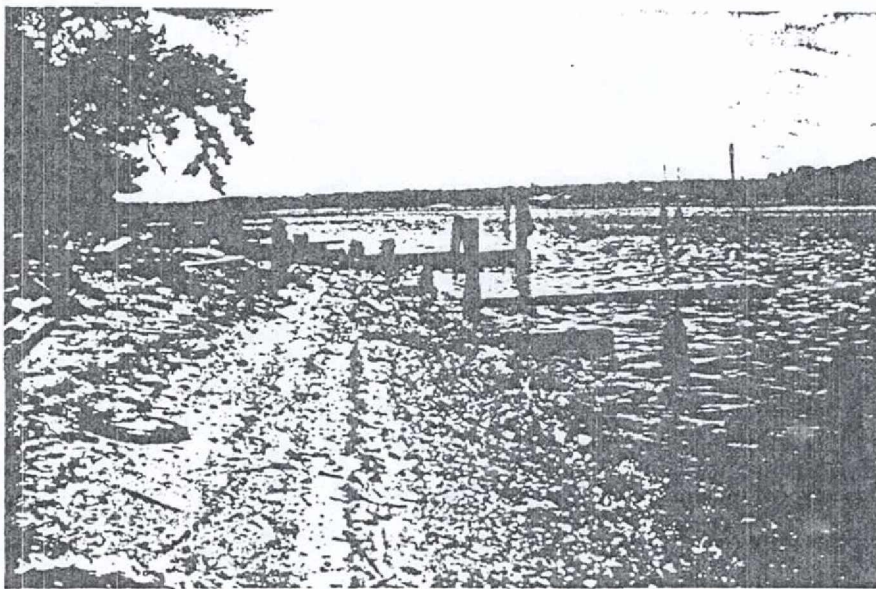


Plate 13  
Remains of Shipways  
View South from Site Map Reference Point S3 with Tide In



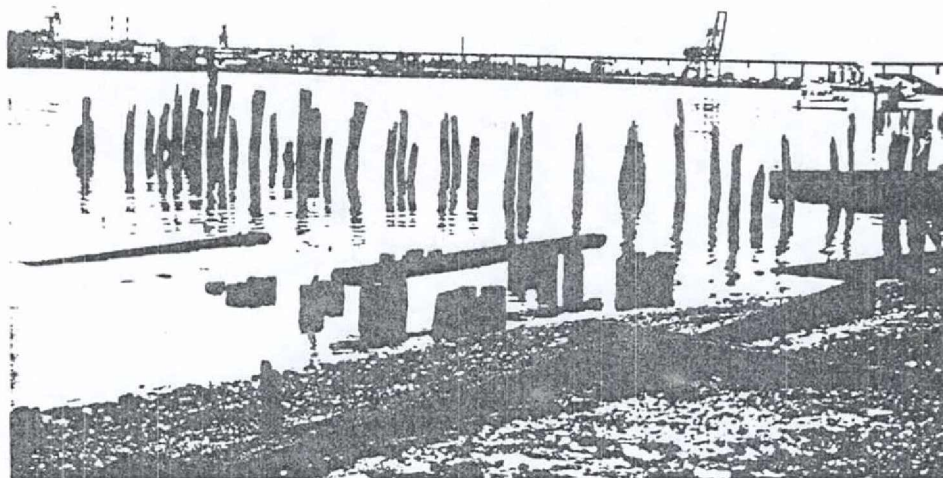


Plate 14  
Remains of Northern End of Shipways (Site Map Reference S4)  
View Northwest with Tide Out



Plate 15  
Remains of Northern End of Shipways  
View Southwest From Site Map Reference S5 with Tide Out

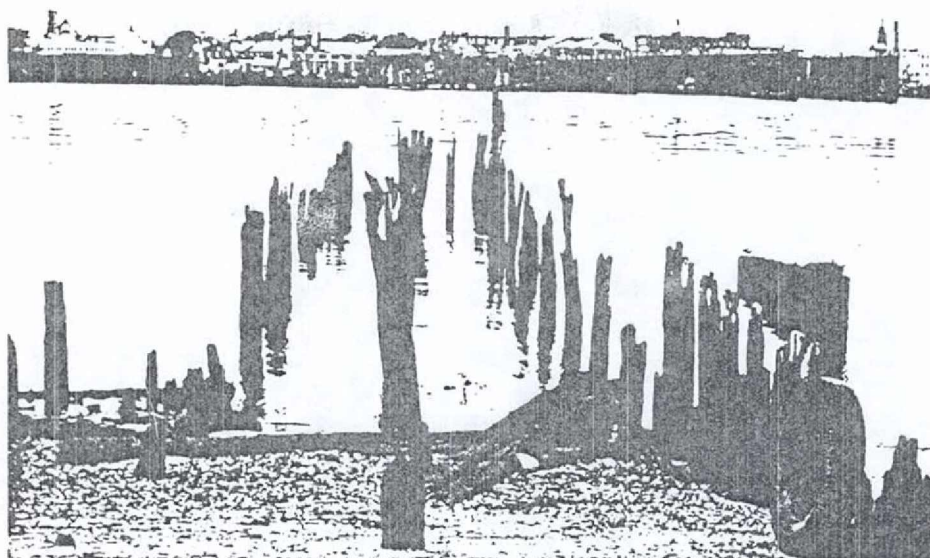


Plate 16  
Remains of Pier Pilings South of Dry Dock  
View West from Site Map Reference Point S5



Plate 17  
Remains of Pier Pilings South of Dry Dock  
View Southwest





Plate 18a  
Remains of Dry Dock Platform  
View West

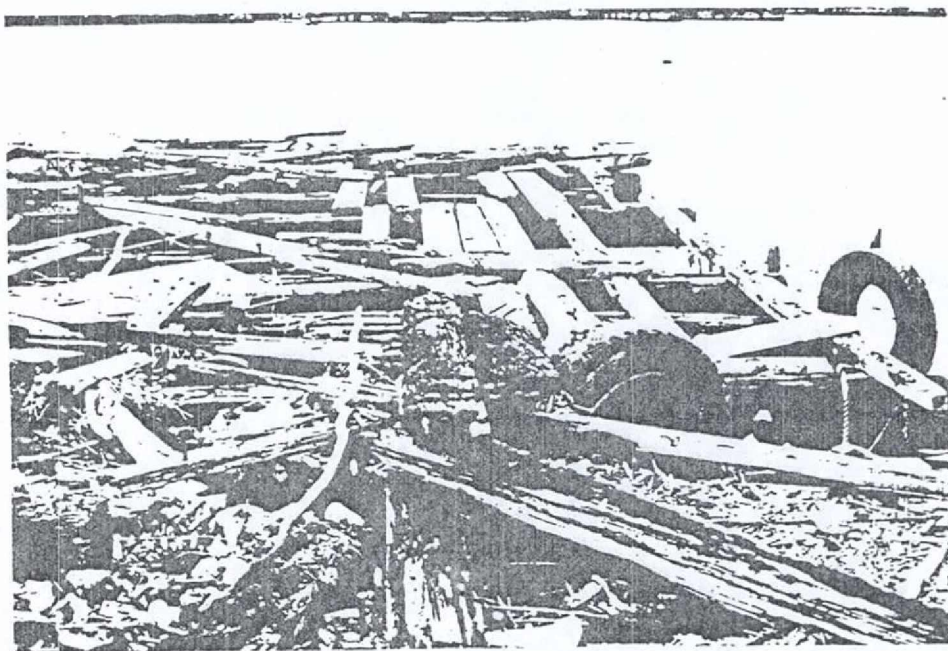


Plate 18b  
Remains of Dry Dock Platform  
View West Near Site Map Reference Point S6

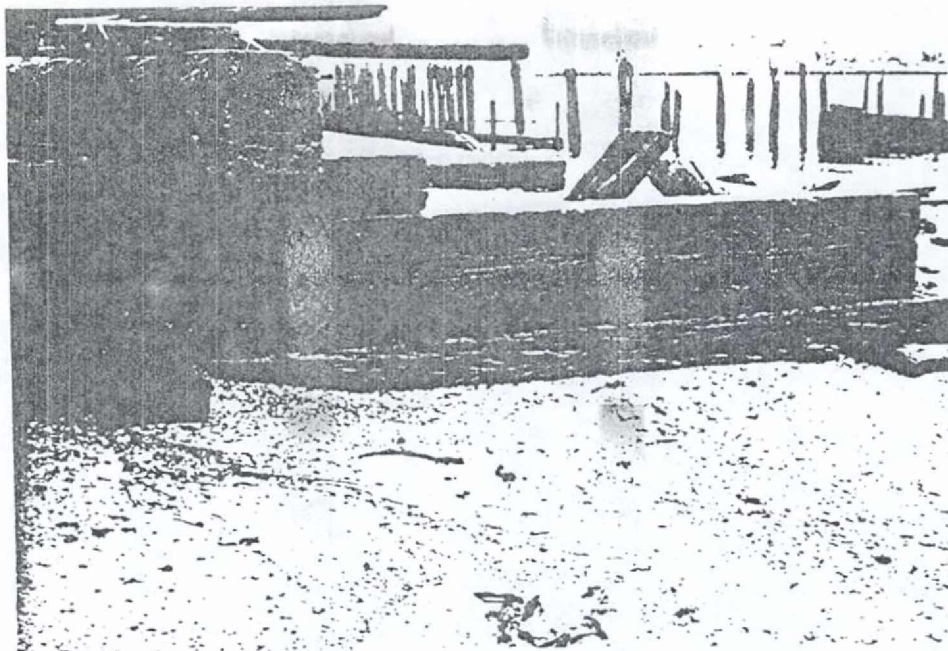


Plate 19  
North Side of Dry Dock  
Remains of Main East-West Beams  
View South

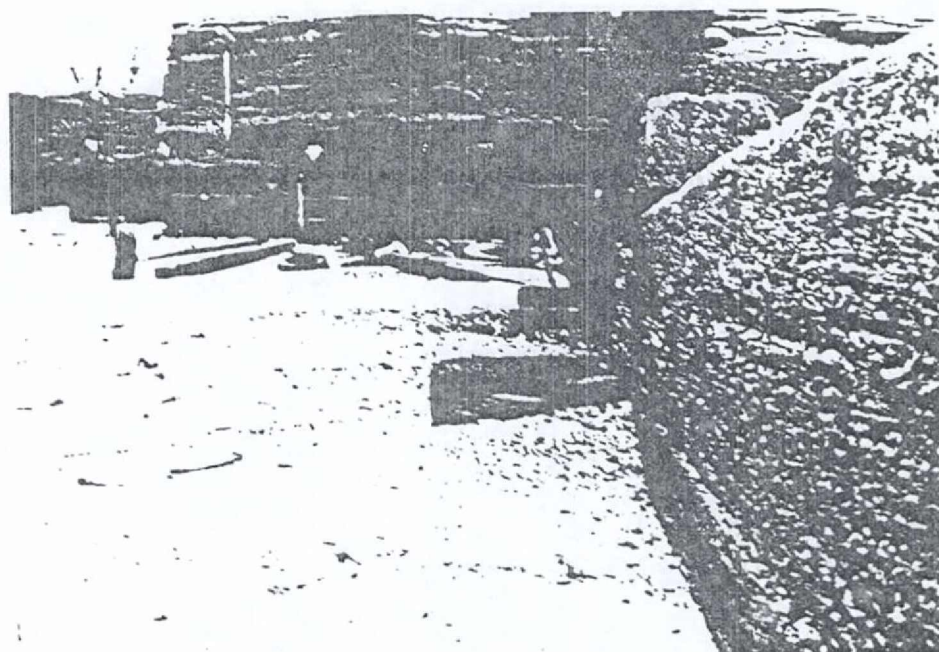


Plate 20  
North Side of Dry Dock  
Remains of Main East-West Beams and Overhanging North-South Beams  
View East





Plate 21  
Charred East-West Beams  
Eastern Part of Exposed Portion of Dry Dock  
View West



Plate 22  
Remains of Dry Dock Platform  
With Upright Wooden Boards on South Side  
View East





Plate 23  
 Pilings from L-Shaped Pier North of Dry Dock  
 (Site Map Reference Point S7 in Center of Photograph)  
 Dry Dock Platform and Pier Pilings South of Dry Dock in Background  
 View Southwest



Plate 24  
 Pilings from L-shaped Pier  
 Dry Dock Platform in Background  
 View South with Tide Out





Plate 25  
 "Nash" Pier (S11) and Two Hulks (S9 and S10)  
 North of Project Area Boundary  
 View West from Bluff Top



Plate 26  
 "Nash" Pier (S11) and Two Hulks (S9 and S10)  
 North of Project Area Boundary  
 View West from Beach



Plate 27  
Remains of Hulk on Beach (Site Map Reference S8)  
View Southwest with Tide Out



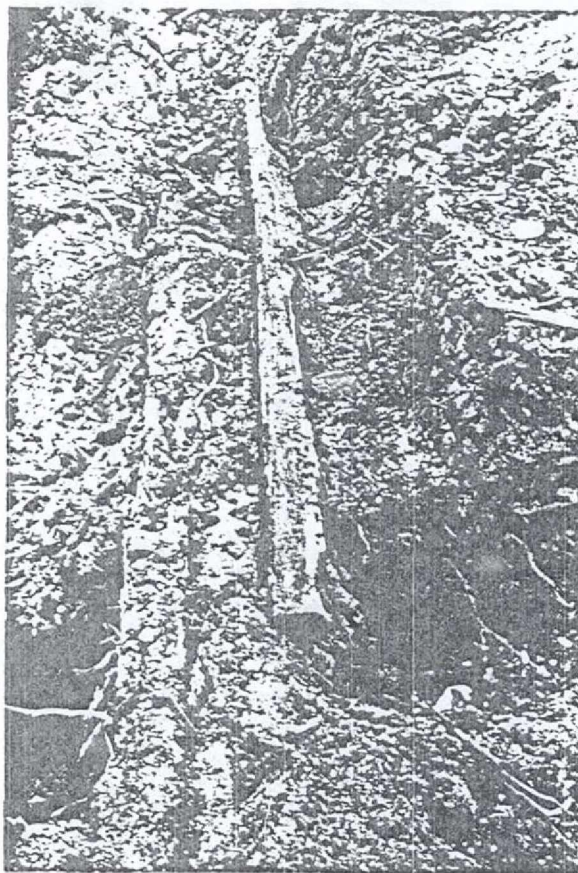


Plate 28  
Beams and Post Exposed in Backhoe Trench G  
Site Map Reference S12  
View East

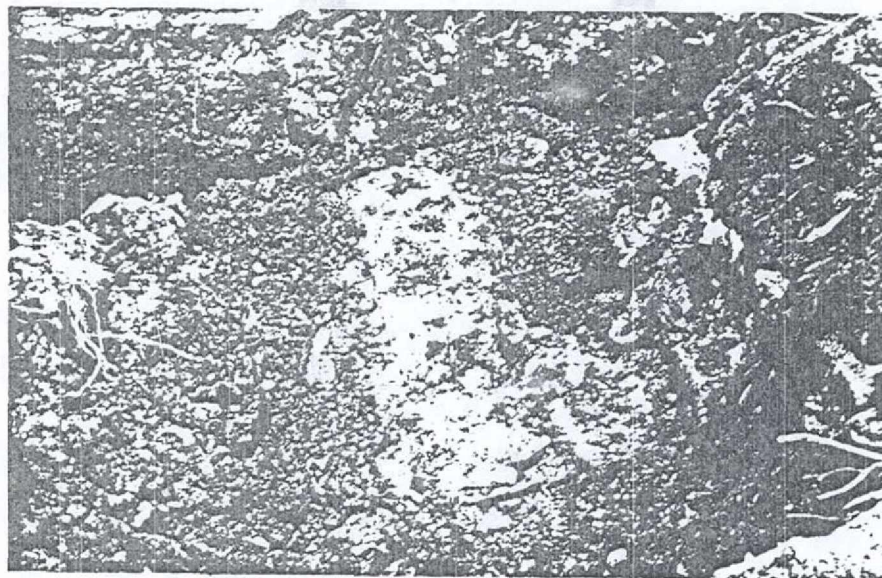
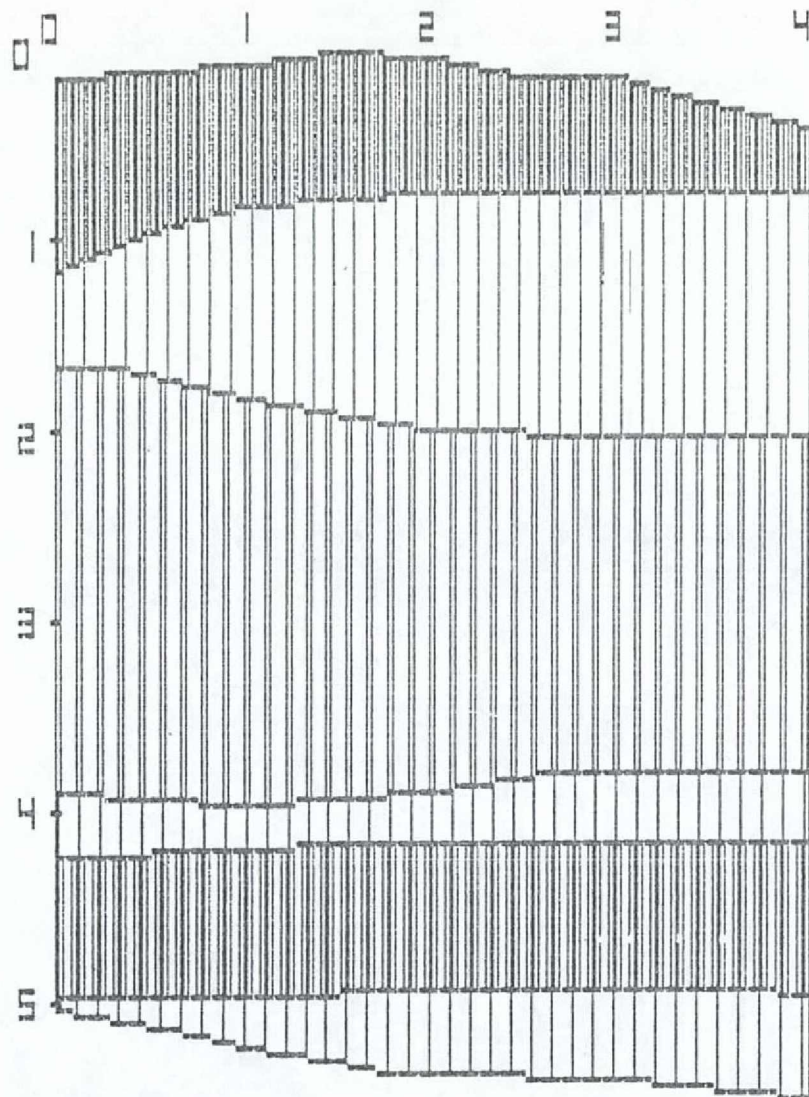








Plate 29  
Stone Slab Exposed in Backhoe Trench G  
View East

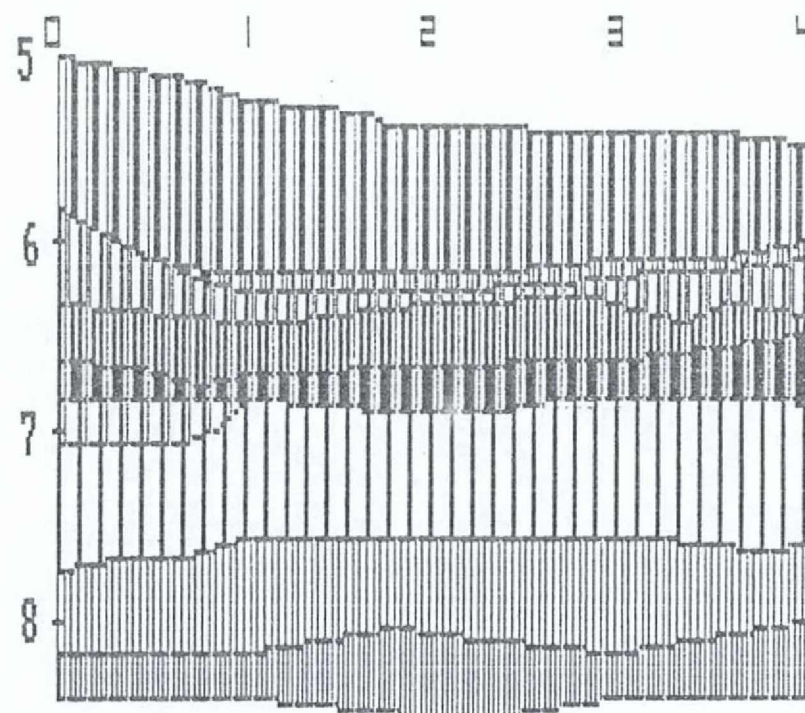
APPENDIX A  
TEST UNIT PROFILES





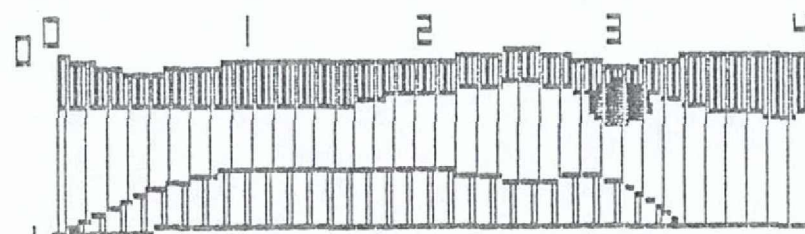
- 1  Humus
- 2  Orange Sand w Brown Sand Mot
- 3  Orange Sand
- 4  Orange Sand w Brn Snd Mottling
- 5  Brown Sandy Silt
- 6  Orange Sand w Brown Mottling

BACKHOE TRENCH A - EAST PROFILE - UPPER PORTION



- 7 ■■■ Brn&Or Mot Snd (Sm pcs shel&coal)
- 8 ■■■ Brown Sand w pcs. shell
- 9 ■■■ Brown/Orange Mottled Sand
- 10 ■■■ Red/Brn Snd w Or & Green Clay
- 11 ■■■ Brown Silty Sand
- 12 ■■■ Dk Gray Sand w Rust Staining
- 13 ■■■ Dark Gray Sand w Lt Gray Snd Mot
- 14 ■■■ Gray/Rust Silty Sand
- 15 ■■■ Reddish Clayey Silt

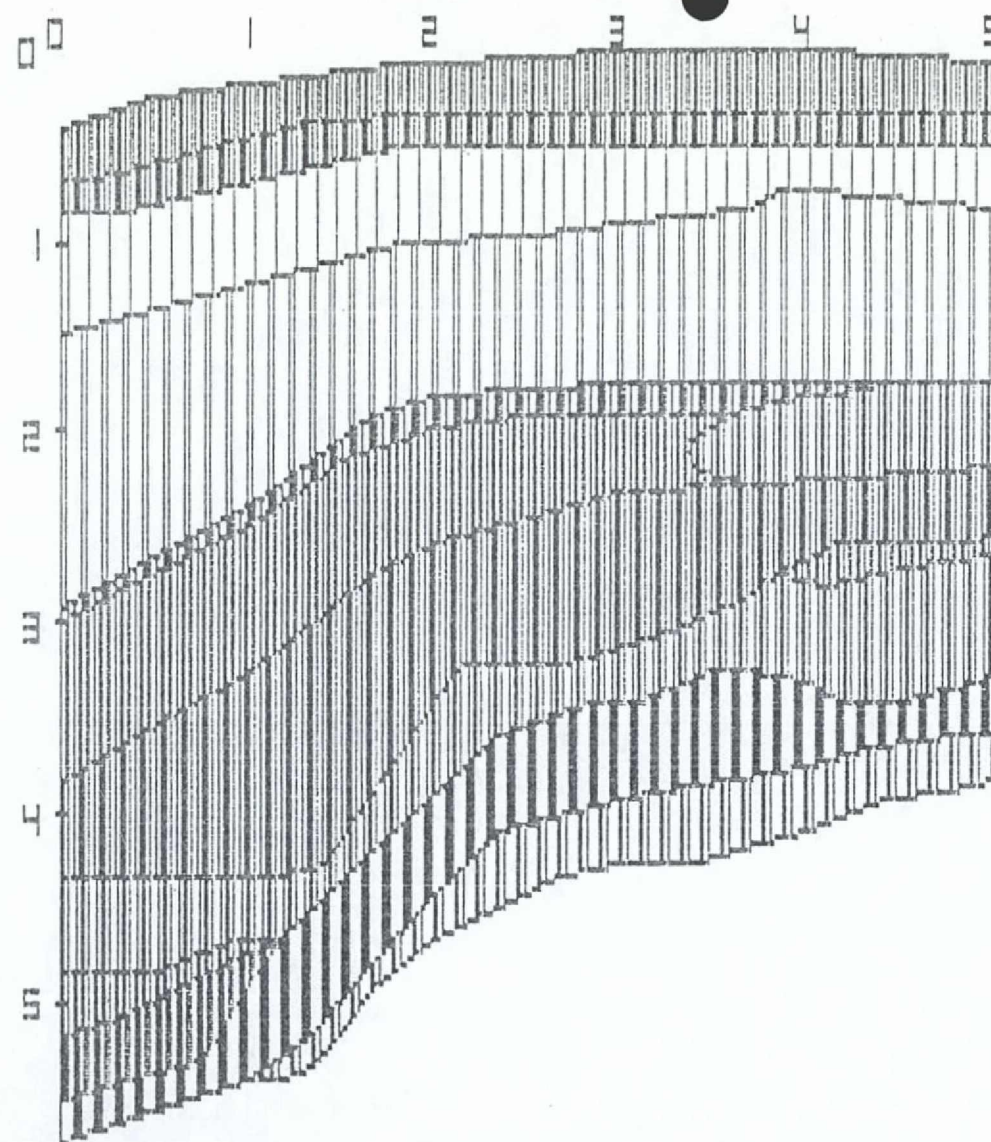
BACKHOE TRENCH A - EAST PROFILE - LOWER PORTION  
Scale in Feet



- 1  Humus
- 2  Root
- 3  Orange Sand w Brn Mot
- 4  Orange/Brn Sand

WOODVALE - TEST UNIT A - NORTH PROFILE  
Scale in Feet

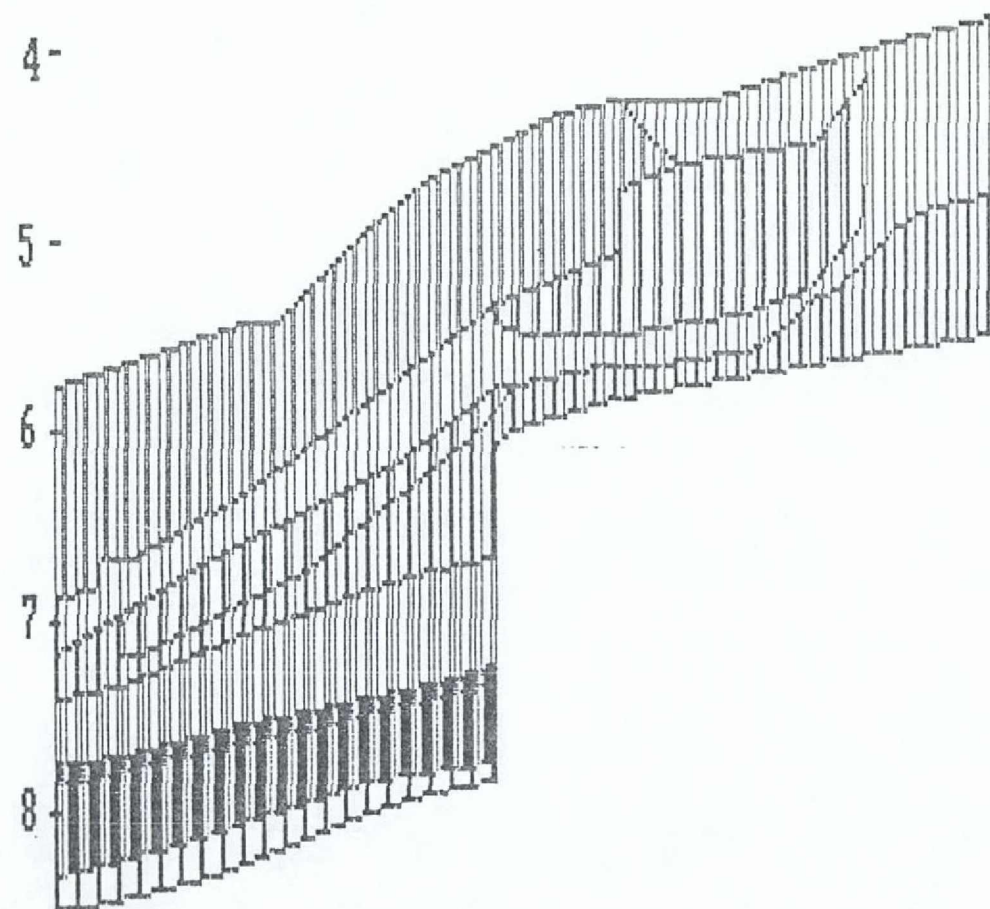




- 1 Humus
- 2 Gray/Bl Silty Sand
- 3 Or Snd-Gr/Bl Slt Snd Mot
- 4 Or/Brn Snd-Gray Motl
- 5 Gray/Brn Silty Sand
- 6 Rd/Brn Clayey Snd-Pebls
- 7 Red/Brown Silty Sand
- 8 Reddish Brown Sand
- 9 Rd/Brn Clayey Snd-Pebls
- 10 Red/Brown Silty Sand
- 11 Rd/Br Sd-Or&Rd Cl&Gr Snd
- 12 Rd/Brn Clayey Snd-Pebls
- 13 Yl/Brn Snd-Or&Rd Cl&Pbls
- 14 Brn Snd Silt-Or Snd Mot

WOODVALE - TEST UNIT B - NORTH PROFILE - UPPER PORTION

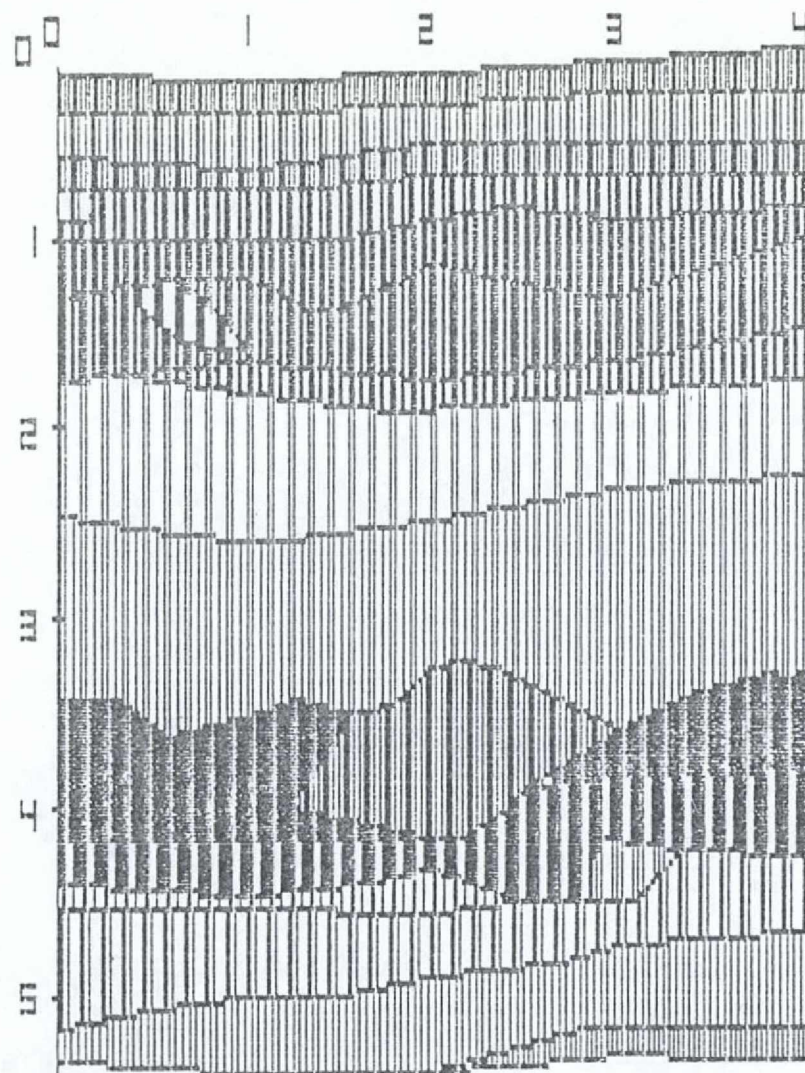
3 1 2 3 4 5



- 15 Dark Orange/Brown Sand
- 16 Yel/Grn Cl-Red Cl Mot
- 17 Gr/Br Sl/Sd-Or Cl/Sd Mot
- 18 Medium Yel/Brn Sand
- 19 Pink/Or Sand-some Silt
- 20 Gray/Brown Sand
- 21 Brown Silty Sand
- 22 Dark Gray/Brown Sand
- 23 Silver Gray Sand

WOODVALE - TEST UNIT B - NORTH PROFILE - LOWER PORTION

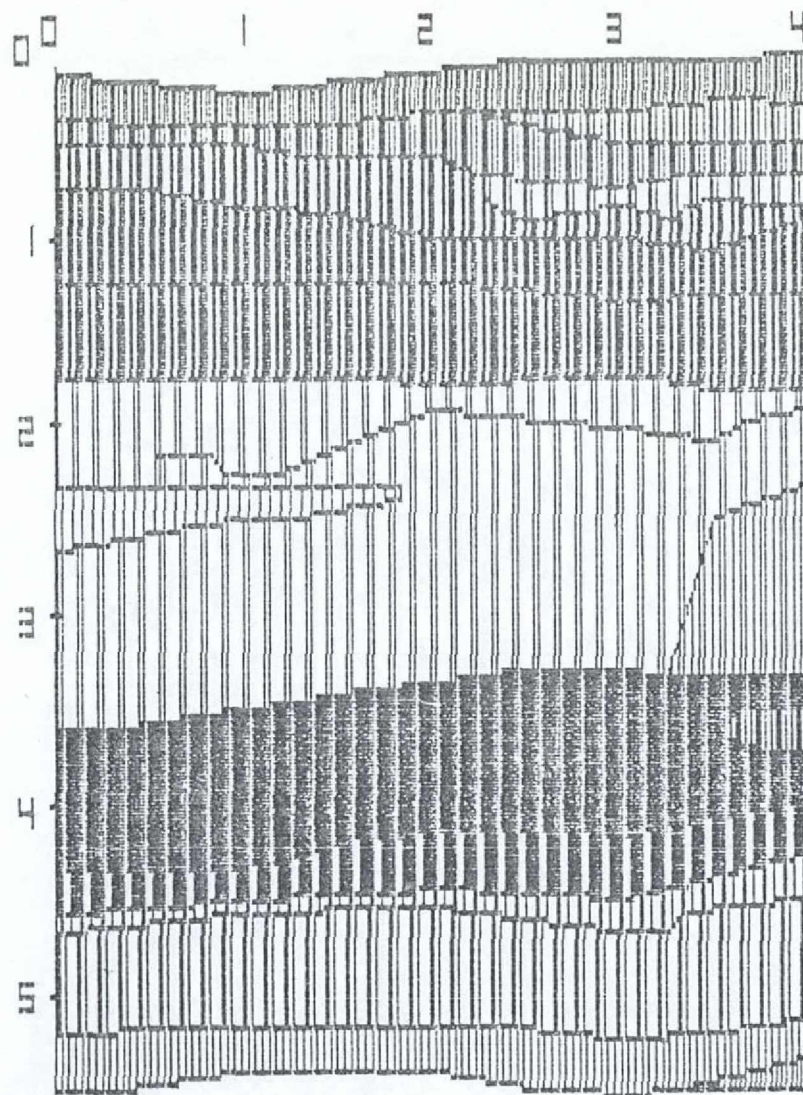




- 1 [Pattern] Black Humus
- 2 [Pattern] Med Brn Snd w some Orange Mot
- 3 [Pattern] Dark Gray/Brn Silty Sand
- 4 [Pattern] Pink Sand/Brown Mottling
- 5 [Pattern] Lt Brn/Or Snd w Brn & Pnk Snd Mot
- 6 [Pattern] Or&Brn Mottled snd w Or Clay Mot
- 7 [Pattern] Brown & Pink Mottled Silty Sand
- 8 [Pattern] Orange Sand w some Brn Mottling
- 9 [Pattern] Orange Sand w Brown Mottling
- 10 [Pattern] Med Brn Silty Snd w Orange Snd Mot
- 11 [Pattern] Med Brn Sand Mixed w Lt Brn/Or Sn
- 12 [Pattern] Root Disturbance (Dk Brn Silty Snd)
- 13 [Pattern] Dk Gray/Brown Silty Sand
- 14 [Pattern] Dk Gray/Brown Silty Sand
- 15 [Pattern] Light Brown Silty Sand
- 16 [Pattern] Orange/Tan Sand
- 17 [Pattern] Or/Tan Snd Mot w Lt Brn Silty Snd
- 18 [Pattern] Tan Sand
- 19 [Pattern] Tan&Gray&Rust&Pink Mot Silty Snd
- 20 [Pattern] Pink & Tan Mot Silty Sandy Clay

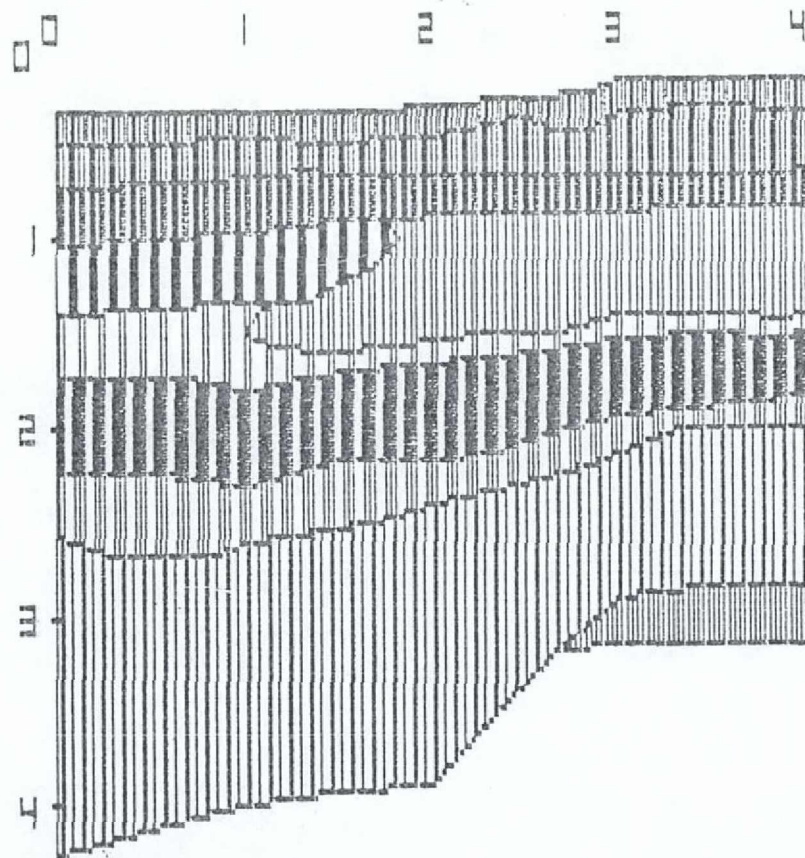
WOODVALE - TEST UNIT C - NORTH PROFILE





- 1 Black Humus
- 2 Med Brn Sand
- 3 Dark Gray/Brn Silty Sand
- 4 Pink Sand w Brown Mottling
- 5 Lt Br/Or Sd w Med Br & Pnk Sd Mot
- 6 Or&Brn Mottled Snd w Or Clay Mot
- 7 Orange Sand w some Brn Mottling
- 8 Orange Sand - More Brown Mottling
- 9 Orange Sand - Little Brn Mottling
- 10 Med Brn Silty Snd w Orange Snd Mot
- 11 Med Brn Snd mixed w. Lt Br/Or Snd
- 12 Root Disturbance
- 13 Dark Gray/Brown Silty Sand
- 14 Light Brown Silty Sand
- 15 Orange/Tan Sand
- 16 Tan Sand
- 17 Tan&Gray&Rust&Pnk Mot Silty Snd
- 18 Pink & Tan Mot Sandy Silty Clay

WOODVALE - TEST UNIT C - WEST PROFILE




- 1 Humus
- 2 Gray/Black Sandy Silt
- 3 Orange & Black & Brn Mottled Sand
- 4 Red & Orange Sandy Pebbley Clay
- 5 Orange Sand Mottled w. Brown
- 6 Orange/Brown Clayey Sand
- 7 Brown Silty Sand
- 8 Yellow/Orange Sand w Brn Mottling
- 9 Yellow/Orange Sand
- 10 Red/Orange Sandy Clayey Silt

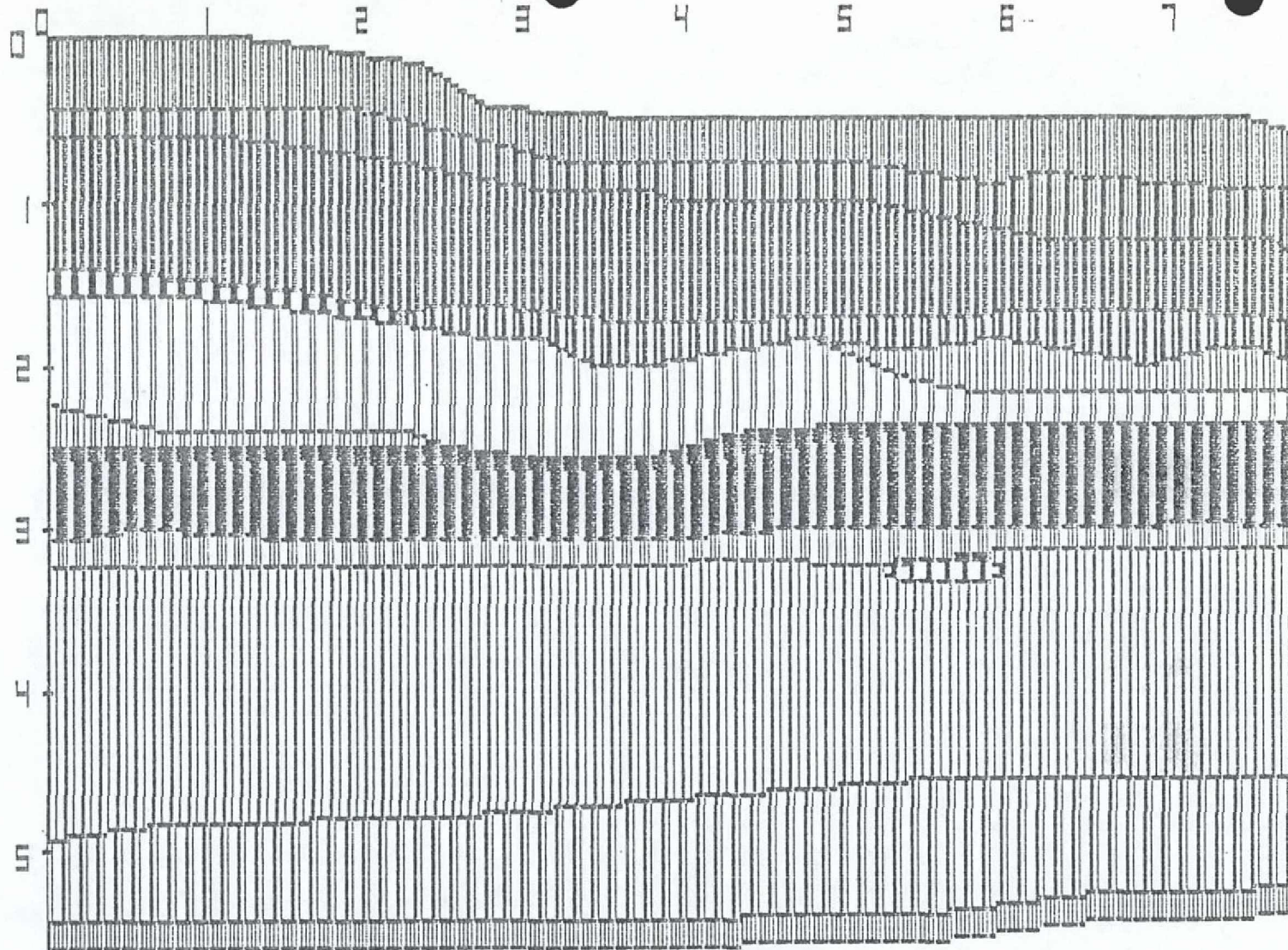
WOODVALE - TEST UNIT D - WEST PROFILE  
Scale in Feet



- 1  Humus
- 2  Brown Sandy Silt
- 3  Red/Br Snd Slt-Br Snd Slt-Red/Br Cl
- 4  Red/Brown Clayey Silt
- 5  Red/Brn Slt Cl mixed w Yel/Brn Sand
- 6  Brown Sand mixed w Yellow/Brn Snd
- 7  Yellow/Brown Sand
- 8  Brown Snd Slt w Yel/Brn Snd Mot
- 9  Black/Gray Silty Sand
- 10  Brown Silty Sand
- 11  Brn Silty Sand w Yel/Brn Snd Mot
- 12  Yellow/Orange Sand
- 13  Gray/Tan Sand
- 14  Red/Brown Sandy Silty Clay

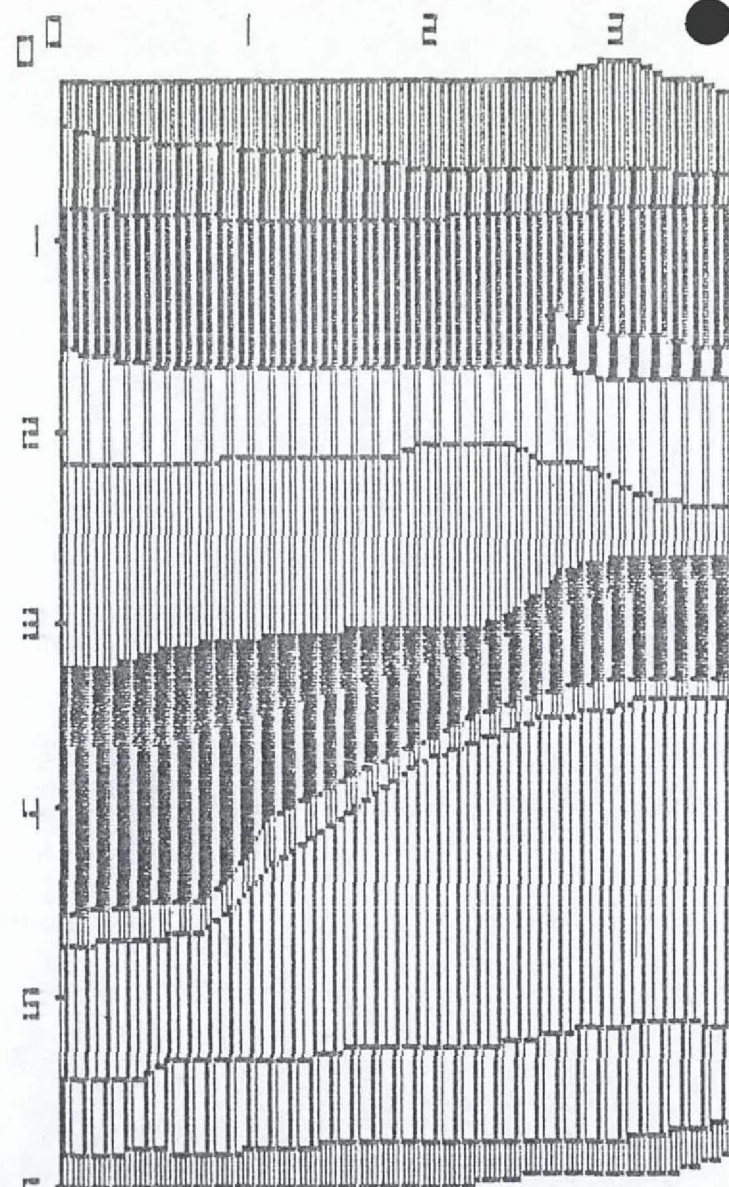
 = Rock

KEY - WOODVALE - TEST UNIT E AND SOUTH EXTENSION - WEST PROFILE



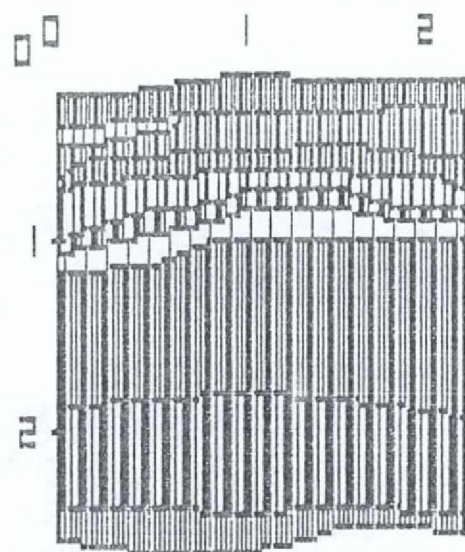
WOODVALE - TEST UNIT E AND SOUTH EXTENSION - WEST PROFILE





- 1 Humus
- 2 Brown Sandy Silt
- 3 Red/Br Snd Slt-Br Snd Slt-Red/Br Cl
- 4 Red/Brown Clayey Silt
- 5 Yellow/Brown Sand
- 6 Brown Sand mixed w Yellow/Brn Snd
- 7 Black/Gray Sandy Silt
- 8 Brown Sandy Silt
- 9 Brn Silty Sand w Yel/Brn Snd Mot
- 10 Yellow/Orange Sand
- 11 Gray/Tan Sand
- 12 Red/Brown Sandy Silty Clay

WOODVALE - TEST UNIT E EXTENSION - SOUTH PROFILE



- 1 [Pattern] Black Humus
- 2 [Pattern] Orange/Brown Mottled Silty Sand
- 3 [Pattern] Gray/Brown Silty Sand w. Ash
- 4 [Pattern] Dark Gray/Brown Silty Sand
- 5 [Pattern] Yel/Brn Silty Snd w Brn Mottling
- 6 [Pattern] Drk Gr/Brn Silty Snd w Yel/Brn Snd
- 7 [Pattern] Ash
- 8 [Pattern] Gray/Brn Snd w Orange Snd Mot
- 9 [Pattern] Orng/Brn Silty Sand w. Brn Motling
- 10 [Pattern] Orng/Brn Silty Snd w. Red Clay

WOODVALE - TEST UNIT F - WEST PROFILE  
Scale in Feet

APPENDIX B  
ARTIFACT INVENTORY

# SITE A - SHOVEL TESTS

Catalog Number: 1/1  
Stratum/Level: I

Test Cut/Shovel Test: N70W25  
Opening Depths (in.): 0  
Closing Depths (in.): 6

Stratum Description: Black Sandy Silt

Quantity	Artifact	Description
----------	----------	-------------

9.1 gms	Cinder/slag	
3.6 gms	marine shell	oyster

Catalog Number: 1/2  
Stratum/Level: II

Test Cut/Shovel Test: N70W25  
Opening Depths (in.): 6  
Closing Depths (in.): 11.5

Stratum Description: Gray/Brown Sand

Quantity	Artifact	Description
----------	----------	-------------

No Cultural Materials		
-----------------------	--	--

Catalog Number: 1/3  
Stratum/Level: III

Test Cut/Shovel Test: N70W25  
Opening Depths (in.): 11.5  
Closing Depths (in.): 56

Stratum Description: Brown Sand

Quantity	Artifact	Description
----------	----------	-------------

2	flakes,resharpening	1 yellow jasper,1 black chert
1	flake	yellow jasper
2	nail fragments	
4 pcs.	rusted metal	
2.3 gms.	coal/cinder/slag	
100.0 gms	marine shell	
167.2 gms	fire cracked rock	(1 pc.)



Catalog Number: 2/1  
Stratum/Level: I - II

Test Cut/Shovel Test: N70W15  
Opening Depths (in.): 0  
Closing Depths (in.): 33

Stratum Description: 0-12" Humus and Red/Yellow Silty Sand and  
12-33" Darker Red/Yellow Silty Sand with Clay Pockets (artifacts from  
these strata inadvertently combined in laboratory)

Quantity	Artifact	Description
3 sherds	buff earthenware	brown glaze (probable ceramic pipe)
2 pcs	curved glass	light blue
1 pc	flat glass	clear
1 pc	metal cable	stranded wire cable
3 pcs	misc. rusted metal	
24.1 gms	coal/cinder/slag	
4.8 gms	marine shell	

Catalog Number: 2/2  
Stratum/Level: III

Test Cut/Shovel Test: N70W15  
Opening Depths (in.): 33  
Closing Depths (in.): 40

Stratum Description: Darker Red/Yellow Silty Sand with Clay Pockets

Quantity	Artifact	Description
	No Cultural Materials	

Catalog Number: 3/1  
Stratum/Level: I

Test Cut/Shovel Test: N60W25  
Opening Depths (in.): 0  
Closing Depths (in.): 6

Stratum Description: Black Sandy Silt

Quantity	Artifact	Description
	No Cultural Materials	

Catalog Number: 3/2  
Stratum/Level: II

Test Cut/Shovel Test: N60W25  
Opening Depths (in.): 6  
Closing Depths (in.): 8

Stratum Description: Gray Sandy Silt

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Quantity	Artifact	Description
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No Cultural Materials

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Catalog Number: 3/3  
Stratum/Level: III

Test Cut/Shovel Test: N60W25  
Opening Depths (in.): 8  
Closing Depths (in.): 46

Stratum Description: Brown Sand

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Quantity	Artifact	Description
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1	flake, utilized	red jasper
2	flakes, resharpening	1 yellow jasper, 1 gray chert
1	flake	argillite
1	nail	cut/wrought
14.6 gms	coal/cinder/slag	
236.8 gms	marine shell	

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Catalog Number: 4/1  
Stratum/Level: I - II

Test Cut/Shovel Test: N60W32  
Opening Depths (in.): 0  
Closing Depths (in.): 18

Stratum Description: 0-9" Loam and Yellow Sand/9-18" Yellow Sand

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Quantity	Artifact	Description
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1	flake	yellow jasper, decortication
1	red brick fragment	
1	bone	mammal, tooth
149.0 gms	marine shell	

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Catalog Number: 4/2  
Stratum/Level: III

Test Cut/Shovel Test: N60W32  
Opening Depths (in.): 18  
Closing Depths (in.): 40

Stratum Description: Yellow Sand

Quantity	Artifact	Description
2	flakes, resharpening	1 yellow jasper, 1 yellow/brown jasper
1	blocky fragment	black chert
2 pcs.	plastic	
2 pcs.	misc. rusted metal	
6.0 gms	coal	(1 pc.)
327.0 gms	marine shell	
344.2 gms	fire cracked rock	(5 pcs.)

Catalog Number: 4/3  
Stratum/Level: IV

Test Cut/Shovel Test: N60W32  
Opening Depths (in.): 40  
Closing Depths (in.): 43

Stratum Description: Yellow Sand

Quantity	Artifact	Description
2.1 gms	marine shell	

Catalog Number: 5  
Stratum/Level: I

Test Cut/Shovel Test: N40W25  
Opening Depths (in.): 0  
Closing Depths (in.): 23

Stratum Description: Recently deposited fill

Quantity	Artifact	Description
1 sherd	white ware	blue transfer print
1 sherd	porcelain	plain, molded (thick)
2 sherds	red earthenware	unglazed
9 pcs.	curved glass	9 amber, 1 w. embossed design; 3 clear w. embossed letters and stippling
2 pcs	flat glass	green tinted
1	wire nail	driven through pc. of wood
1 pc.	shingle	
2.0 gms	plaster	1 pc.
1.0 gms	mortar	1 pc.
10.9 gms	red brick	1 pc.
19.6 gms	coal/cinder/slag	
5.8 gms	marine shell	
	(concrete and fresh grass found at 23")	



Catalog Number: 6  
Stratum/Level: I

Test Cut/Shovel Test: N30W25  
Opening Depths (in.): 0  
Closing Depths (in.): 23

Stratum Description: Recently deposited fill containing leaf mold

Quantity	Artifact	Description
6 pcs.	plastic	inc. 2 package wrappers, 1 with product bar code
1 sherd	red earthenware	white glaze
3.0 gms	marine shell	
2	Coca Cola bottles	discarded in field

Catalog Number: 7/1  
Stratum/Level: I

Test Cut/Shovel Test: N40W15  
Opening Depths: 0  
Closing Depths: 13

Stratum Description: Recently Disturbed Soil (Not Screened)

Quantity	Artifact	Description
	No Cultural Materials	

Catalog Number: 7/2  
Stratum/Level: II

Test Cut/Shovel Test: N40W15  
Opening Depths (in.): 13  
Closing Depths (in.): 40

Stratum Description: Brown Sand

Quantity	Artifact	Description
2 sherds	whiteware	plain
2 pcs.	asphalt	paving material?
9.7 gms	mortar/plaster	
12.8 gms	coal/cinder/slag	
165.7 gms	marine shell	

Catalog Number: 8/1  
Stratum/Level: I - II

Test Cut/Shovel Test: N10W15  
Opening Depths (in.): 0  
Closing Depths (in.): 14

Stratum Description: 0-7" Brown/Black Humus and 7-14" Brown/Gray/Black Sandy Silt (Artifacts from these strata inadvertently combined in laboratory)

Quantity	Artifact	Description
9 pcs.	curved glass	1 amber w. molded decoration/stippling 1 clear, 7 clear, thin (lamp glass?)
3 pcs	flat glass	1 clear, 3 purple tinted
5 pcs	leather	
22.7 gms	red brick	7 pcs.
1 pc.	dressed stone	
2 pcs	asphalt	paving material
17.3 gms	coal/cinder/slag	
8.3 gms	marine shell	hard shell clam (1 pc.)

Catalog Number: 8/2  
Stratum/Level: III

Test Cut/Shovel Test: N10W15  
Opening Depths (in.): 14  
Closing Depths (in.): 40

Stratum Description: Pinkish/Orange/Yellow Sand

Quantity	Artifact	Description
1	blocky fragment	quartz, decortication (possibly naturally fractured)
1 sherd	red earthenware	brown lead glaze
1 pc.	curved glass	clear, thin (lamp glass?)
4 pcs.	flat glass	clear
1 pc.	leather	
5.8 gms	coal/cinder/slag	
1.8 gms	marine shell	

Catalog Number: 8/3  
Stratum/Level: IV

Test Cut/Shovel Test: N10W15  
Opening Depths (in.): 40  
Closing Depths (in.): 48

Stratum Description: Pink/Gray Sand

Quantity	Artifact	Description
1 pc.	curved glass	amber
1	nail fragment	cut nail
0.12 gms	marine shell	oyster (1 pc.)

Catalog Number: 9  
Stratum/Level: I - III

Test Cut/Shovel Test: N55W3  
Opening Depths (in.): 0  
Closing Depths (in.): 41

Stratum Description: 0-6" Brown Clayey Sand, 6-15" Mottled Brown Sand  
and 15-41" Red Clayey Sand (artifacts inadvertently  
combined in laboratory)

Quantity	Artifact	Description
1 sherd	red earthenware	unglazed
1 pc	curved glass	clear
67.5 gms	coal/cinder/slag	
3.2 gms	marine shell	



Catalog Number: 10/1  
Stratum/Level: I

Test Cut/Shovel Test: N60W15  
Opening Depths (in.): 0  
Closing Depths (in.): 8

Stratum Description: Black/Brown Humus

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Quantity	Artifact	Description
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No Cultural Materials

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Catalog Number: 10/2  
Stratum/Level: II

Test Cut/Shovel Test: N60W15  
Opening Depths (in.): 8  
Closing Depths (in.): 14

Stratum Description: Brown Sand

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Quantity	Artifact	Description
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1	flake,resharpening	gray chert
1	blocky fragment	grayish green chert, heated?
2 sherds	red earthenware	unglazed
1 sherd	white porcelain	plain
1 pc.	bottle glass	amber
1	nail	rusted, cut?
7.8 gms	coal/cinder/slag	
78.4 gms	marine shell	
290.6 gms	fire cracked rock	

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Catalog Number: 10/3  
Stratum/Level: III

Test Cut/Shovel Test: N60W15  
Opening Depths (in.): 14  
Closing Depths (in.): 21

Stratum Description: Yellow/Brown Sand

Quantity	Artifact	Description
1	flake, resharpening	gray/black chert
1 sherd	pearlware/white ware	underglaze blue painted
1 sherd	porcelain	plain, thick
2 pcs.	brick	(small fragments)
7.3 gms	coal/cinder/slag	
60.5 gms	marine shell	

Catalog Number: 10/4  
Stratum/Level:

Test Cut/Shovel Test: N60W15  
Opening Depths (in.): 21  
Closing Depths (in.): 46

Stratum Description: Darker Brown Sand with Yellow and Pink Mottling

Quantity	Artifact	Description
2	flakes	1 black chert, 1 gray chert
1 sherd	buff earthenware	brown slip (from ceramic pipe)
1 pc	curved glass	amber
2 pcs	flat glass	clear
1	nail fragment	
27.9 gms	coal/cinder/slag	
37.0 gms	marine shell	
40.2 gms	fire cracked rock	

Catalog Number: 11/1  
Stratum/Level: I

Test Cut/Shovel Test: N50W40  
Opening Depths (in.): 0  
Closing Depths (in.): 10.5

Stratum Description: Black Sandy Silt

Quantity	Artifact	Description
1	pipe stem	kaolin
5 pcs.	misc. rusted metal	1 w. attached pc. of mortar
97.4 gms	coal/cinder/slag	
3 pcs	bone	mammal
251.1 gms	marine shell	

Catalog Number: 11/2  
Stratum/Level: II

Test Cut/Shovel Test: N50W40  
Opening Depths (in.): 10.5  
Closing Depths (in.): 36

Stratum Description: Brown Sandy Silt mixed with Red Clayey Silt, Brown/Yellow Sand, Red/Brown Sand and Gray/Brown Sandy Silt

Quantity	Artifact	Description
1	biface fragment	black chert
45.0 gms	coal/cinder/slag	
48.2 gms	marine shell	

Catalog Number: 11/3  
Stratum/Level: III

Test Cut/Shovel Test: N50W40  
Opening Depths (in.): 36  
Closing Depths (in.): 50

Stratum Description: Gray/Brown Sandy Silt Mixed with Yellow/Brown Sand and Red/Brown Sand

Quantity	Artifact	Description
8.8 gms	coal/cinder/slag	
35.3 gms	marine shell	
4.0 gms	fire cracked rock	

Catalog Number: 15/1  
Stratum/Level: I

Test Cut/Shovel Test: N80W25  
Opening Depths (in.): 0  
Closing Depths (in.): 12

Stratum Description: Hard Packed Black, Pink and Brown Mottled Sandy Clay with Rocks (not screened)

Quantity	Artifact	Description
		(pcs plastic, bottle glass, whiskey bottle, golf ball, dressed wood and leaves - discarded in field)

Catalog Number: 15/2  
Stratum/Level: II

Test Cut/Shovel Test: N80W25  
Opening Depths (in.): 12  
Closing Depths (in.): 26

Stratum Description: Brown, Pink and Black Mottled Sandy Silt (not screened)

Quantity	Artifact	Description
		No Cultural Materials

Catalog Number: 15/3  
Stratum/Level: III

Test Cut/Shovel Test: N80W25  
Opening Depths (in.): 26  
Closing Depths (in.): 40

Stratum Description: Lenses of Orange, Red/Orange and Gray Sand

Quantity	Artifact	Description
1 sherd	whiteware	blue transfer print
5 pcs	curved glass	amber, 2 w. molded/stippled decoration
1 pc	plastic	
1	nail fragment	
8.4 gms	plaster	3 pcs., 2 with attached mortar
130.6 gms	mortar	(2 pcs.)
10.3 gms	coal/cinder/slag	
37.5 gms	marine shell	

Number: 15/4  
Stratum/Level: IV

Test Cut/Shovel Test: N80W25  
Opening Depths (in.): 40  
Closing Depths (in.): 45

Stratum Description: Brown/Gray Mottled Sand

Quantity	Artifact	Description
4.3 gms	marine shell	



# TEST UNIT A

Catalog Number: 12  
Stratum/Level: Ia

Test Cut/Shovel Test: A  
Opening Depths (in.): 0/1.75  
Closing Depths (in.): 2/4.5

Stratum Description: Dark Brown/Black Humus

Quantity	Artifact	Description
1	flake	argillite
9 sherds	porcelain	from molded porcelain animal, black and white
30 pcs	curved glass	28 clear, 2 with decal lettering "Janssen Chardavoyne"; 1 amber; 1 light green
1 pc	flat glass	green tinted
3 pcs	plastic	
1 pc.	cloth	
1	metal bar	each end bent at 90 degrees, pointed at each end
8	nails	4 cut, 4 wire
3	nail fragments	
2	screws	
2	misc. fasteners	
3 pcs	misc. metal	hardware
13 pcs	shingle	
3077.8 gm	red brick	9 pcs inc 5 lg pcs.
9.3 gms	mortar	1 pc.
46.9 gms	macadam	2 pcs.
29.3 gms	coal/cinder/slag	
13.3 gms	marine shell	

Catalog Number: 14  
Stratum/Level: IIa

Test Cut/Shovel Test: A  
Opening Depths (in.): 2/4.5  
Closing Depths (in.): 3.5/6.25

Stratum Description: Orange Sand

Quantity	Artifact	Description
1	nail fragment	
6.4 gms	coal/cinder/slag	
81.2 gms	marine shell	

Catalog Number: 18  
Stratum/Level: IIIa

Test Cut/Shovel Test: A  
Opening Depths (in.): 3.5/6.25  
Closing Depths (in.): 6/8

Stratum Description: Brown Sand

Quantity	Artifact	Description
1	flake, resharpening	yellow jasper, heated
1	flake	argillite
1	chip/blocky fragment	black chert
1 pc	curved glass	light green
1	metal button	corroded
2	wire nails	
2.2 gms	coal/cinder/slag	
210.1 gms	marine shell	

Catalog Number: 20  
Stratum/Level: IIIb

Test Cut/Shovel Test: A  
Opening Depths (in.): 8/12  
Closing Depths (in.): 10/12

Stratum Description: Yellow/Brown Sand

Quantity	Artifact	Description
1 sherd	prehistoric ceramic	grit tempered, plain
2	flakes	1 yellow jasper; 1 red jasper, decortication
2	blocky fragments	1 black chert; 1 gray chert
2 pcs	macadam	paving material (4.9 gms)
0.4 gms	coal	1 pc
416.7 gms	marine shell	
214.6 gms	fire cracked rock	

Catalog Number: 23  
Stratum/Level: IIIc

Test Cut/Shovel Test: A  
Opening Depths (in.): 7.75/10.25  
Closing Depths (in.): 10/10.5

Stratum Description: Orange Sand

Quantity	Artifact	Description
1 sherd	prehistoric ceramic	plain, grit tempered
4	flakes	1 yellow jasper, 2 black chert 1 argillite
5.6 gms	coal/cinder/slag	
508.6 gms	marine shell	
125.1 gms	fire cracked rock	

Catalog Number: 25  
Stratum/Level: IIId

Test Cut/Shovel Test: A  
Opening Depths (in.): 10/10.5  
Closing Depths (in.): 12/12

Stratum Description: Orange Sand

Quantity	Artifact	Description
6	flakes	black chert
1	blocky fragment	light gray chert
1	chip	quartz (possibly naturally fractured)
361.8 gms	marine shell	
55.2 gms	fire cracked rock	

# TEST UNIT B

Catalog Number: 13  
Stratum/Level: Ia

Test Cut/Shovel Test: B  
Opening Depths (in.): 1/7  
Closing Depths (in.): 3/11.5

Stratum Description: Black Sandy Silt - Humus

Quantity	Artifact	Description
1 sherd	pearlware	plain
4 pcs.	curved glass	basal portions of 2 bottles, 1 clear, 1 green, mold seams on both, embossed numbers on green pc.; 1 pc clear v. mold seam; 1 dark green
2	nails	1 wire; 1 unident
4	nail fragments	
2 pcs	misc. metal	corroded
14.8 gms	coal/cinder/slag	
1293.3 gm	marine shell	
62.3 gms	fire cracked rock?	

Catalog Number: 16  
Stratum/Level: --

Test Cut/Shovel Test: B  
Opening Depths (in.): 6  
Closing Depths (in.): 53

Stratum Description: Debris from Phase I shovel test - Black/Gray/Brown Sandy Silt and Yellow Brown Sand with Wood Chips-Shoveled out - Not Screened

Quantity	Artifact	Description
No Cultural Materials		

Catalog Number: 17  
Stratum/Level: IIa

Test Cut/Shovel Test: B  
Opening Depths (in.): 3/11.5  
Closing Depths (in.): 6/12

Stratum Description: Yellow/Brown Sand mottled with Black Sandy Silt

Quantity	Artifact	Description
1	flake, resharpening	yellow jasper
1	flake	yellow/brown jasper
10.2 gms	coal/cinder/slag	
2 pcs	bone	mammal
1374.2 gm	marine shell	



Catalog Number: 19  
Stratum/Level: IIIa

Test Cut/Shovel Test: B  
Opening Depths (in.): 6/12  
Closing Depths (in.): 8/12

Stratum Description: Yellow/Brown Sand

Quantity	Artifact	Description
1	flake, resharpening	black chert
6	flakes	5 black chert, 2 decortication; 1 argillite
1	whole red brick	1656.2 gms, 8" x 2.2" x 3.3"
2.6 gms	red brick	1 pc
4.0 gms	coal/cinder/slag	
1 pc.	bone	mammal
2060.7 gm	marine shell	
23.9 gms	fire cracked rock?	

Catalog Number: 21  
Stratum/Level: IIIb

Test Cut/Shovel Test: B  
Opening Depths (in.): 8/12  
Closing Depths (in.): 10/12

Stratum Description: Yellow/Brown Sand

Quantity	Artifact	Description
1 sherd	prehistoric ceramic	grit and sand tempered, plain
1	flake, resharpening	black chert
4	flakes	3 black chert (1 - 4 cm.); 1 gray chert (5.3 cm), possibly utilized
1	blocky fragment	yellow jasper
1	chip	gray chert
1 pc	gound/pecked stone?	broken ovate cobble, possible wear on both faces, some pecking at end (width 4.4 cm., max. thickness .9 cm, length 7.1 cm)
15.3 gms	coal/cinder/slag	
1 pc	bone	mammal
1280.2 gm	marine shell	
237.0 gms	fire cracked rock	

Catalog Number: 22  
Stratum/Level: IIIc

Test Cut/Shovel Test: B  
Opening Depths (in.): 10/12  
Closing Depths (in.): 12/12

Stratum Description: Yellow/Brown Sand

Quantity	Artifact	Description
3 sherds	prehistoric ceramic	grit tempered; 2 plain, 1 brushed exterior
3	flakes, resharpening	black chert
1	spall	gray chert, possibly heated, possibly naturally fractured
1 sherd	creamware	
1 sherd	stoneware	blue painted underglaze (underfired)
26.4 gms	coal/cinder/slag	
2 pcs	bone	mammal
1896.7 gm	marine shell	
638.2 gms	fire cracked rock	

Catalog Number: 24  
Stratum/Level: IIId

Test Cut/Shovel Test: B  
Opening Depths (in.): 12/12  
Closing Depths (in.): 15/15.5

Stratum Description: Yellow/Brown Sand

Quantity	Artifact	Description
1 sherd	prehistoric ceramic	grit tempered, plain
7	flakes, resharpening	5 black chert, 1 heated; 1 argillite 1 yellow/brown jasper
9	flakes	1 red jasper; 1 yellow jasper; 5 black chert; 1 yellow/brown jasper; 1 argillite
49.8 gms	coal/cinder/slag	
6 pcs.	bone	mammal
1938.1 gm	marine shell	
1641.8 gm	fire cracked rock	

Catalog Number: 26  
Stratum/Level: IIIe

Test Cut/Shovel Test: B  
Opening Depths (in.): 15/15.5  
Closing Depths (in.): 18/18

Stratum Description: Yellow/Brown Sand

Quantity	Artifact	Description
2	flakes	1 black chert; 1 argillite
2 pcs.	curved glass	1 clear; 1 light green

9.4 gms coal/cinder/slag  
 2 pcs bone mammal  
 536.2 gms marine shell  
 329.2 gms fire cracked rock

Catalog Number: 27  
 Stratum/Level: IIIIf

Test Cut/Shovel Test: B  
 Opening Depths (in.): 18/18  
 Closing Depths (in.): 18/24

Stratum Description: Yellow/Brown Sand

Quantity	Artifact	Description
1 sherd	prehistoric ceramic	sand tempered, plain
1	flake, graver?	yellow/brown jasper
1	flake, utilized	black chert, decortication
4	flakes, resharpening	3 black chert; 1 yellow jasper, heated
13	flakes	2 yellow jasper; 8 black chert; 1 gray chert; 1 yellow/brown jasper; 1 argillite
2	blocky fragments	1 black chert, decortication; 1 gray chert
1 pc	curved glass	light green, trace molded decoration
2	nails	1 cut, 1 wire?
5 pcs	trap rock	road gravel?
27.3 gms	coal/cinder/slag	
4 pcs	bone	mammal, inc. 1 from long bone
1039.1 gm	marine shell	
466.3 gms	fire cracked rock	

Catalog Number: 28  
Stratum/Level: IIIg

Test Cut/Shovel Test: B  
Opening Depths (in.): 18/24  
Closing Depths (in.): 18/30

Stratum Description: Yellow/Brown Sand

Quantity	Artifact	Description
3	flakes, resharpening	2 black chert; 1 argillite
6	flakes	4 black chert, 1 yellow jasper, 1 yellow/brown jasper
17.2 gms	coal/cinder/slag	
1 pc.	bone	mammal, tooth
631.4 gms	marine shell	
1 pc	jasper cobble	heated
319.6 gms	fire cracked rock	

Catalog Number: 29  
Stratum/Level: IIIh

Test Cut/Shovel Test: B  
Opening Depths (in.): 18/30  
Closing Depths (in.): 17.5/41.5

Stratum Description: Yellow/Brown Sand

Quantity	Artifact	Description
8	flakes	7 black chert; 1 argillite
93.2 gms	coal/cinder/slag	
3 pcs	bone	mammal, 2 burned
250.4 gms	marine shell	
0.3 gms	charcoal	1 pc.
655.1 gms	fire cracked rock	

Catalog Number: 32  
Stratum/Level: IVa

Test Cut/Shovel Test: B  
Opening Depths (in.): 20.5/41.5  
Closing Depths (in.): 22/46

Stratum Description: Yellow/Brown Sand Mottled with Brown Sand

Quantity	Artifact	Description
1	flake, resharpening	black chert
2	flakes	1 yellow jasper, 1 argillite
1 sherd	red earthenware	clear lead glaze
2 sherds	white ware	plain
4 pcs	curved glass	1 dark green, 3 light green
1 pc	flat glass	green tinted
1	spike	
2	cut nails	
1	tack	
2	nail fragments	



2.9 gms	red brick	1 pc
229.6 gms	coal/cinder/slag	
337.4 gms	trap rock	possibly road bedding????
8 pcs	bone	mammal
62.3 gms	marine shell	
7.5 gms	fire cracked rock?	

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Catalog Number: 33	Test Cut/Shovel Test: B
Stratum/Level: Va	Opening Depths (in.): 22/46
	Closing Depths (in.): 26/49

Stratum Description: Dark Brown Sandy Silt mottled with Red Clay

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Quantity	Artifact	Description
1 sherd	red earthenware	unglazed
3 pcs	curved glass	2 dark green; 1 clear
4 nail	fragments	corroded
0.5 gms	mortar	1 pc.
40.7 gms	trap rock	road gravel?
132.6 gms	coal/cinder/slag	
101.9 gms	marine shell	
2	pebbles/cobbles	1 argillite, 1 yellow jasper?, both fire affected
206.8	fire cracked rock?	

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Catalog Number: 38	Test Cut/Shovel Test: B
Stratum/Level: VIa	Opening Depths (in.): 26/49
	Closing Depths (in.): 32/55.5

Stratum Description: Yellow/Brown Silty Sand mottled with Clay

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Quantity	Artifact	Description
1 sherd	whiteware	plain
1 sherd	pearlware?	plain
1 sherd	pearlware/whiteware	blue transfer printed
1 pc.	curved glass	green
1 pc.	flat glass	clear
3	nails	cut
4	nail fragments	1 cut; 3 unident
1	large metal nut	
24 pcs	misc. metal	corroded
88.6 gms	red brick	2 pcs.
54.3 gms	coal/cinder/slag	
1 pc	bone	mammal
295.7 gms	marine shell	

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Catalog Number: 45  
Stratum/Level: VIb

Test Cut/Shovel Test: B  
Opening Depths (in.): 32/55.5  
Closing Depths (in.): 36.5/60

Stratum Description: Yellow/Brown Silty Sand mottled with Clay

Quantity	Artifact	Description
7 sherds	whiteware	1 unglazed (paste only); 3 plain; 1 blue transfer printed; 1 rim sherd w. blue annular band; 1 green transfer printed? w. portion of maker's mark
1 sherd	porcelain	plain white
2 pcs	curved glass	clear, 1 w. trace of embossed letters
3 pcs	flat glass	2 clear; 1 green tinted
1	metal button	corroded
3	nails	cut
1	nail fragment	cut
26 pcs	misc. metal	corroded
213.0 gms	coal/cinder/slag	
2 pcs	bone	mammal, cut/sawn
880.7 gms	marine shell	

Catalog Number: 49  
Stratum/Level: VIc

Test Cut/Shovel Test: B  
Opening Depths (in.): 36.5/60  
Closing Depths (in.): 43/60

Stratum Description: Yellow/Brown Silty Sand with Red and Yellow Clay

Quantity	Artifact	Description
1 sherd	pearlware	blue transfer printed
2 pcs	curved glass	1 clear, 1 dark green
1	nail, cut	
29.8 gms	coal/cinder/slag	
213.7 gms	marine shell	
28.0 gms	fire cracked rock	

Catalog Number: 50  
Stratum/Level: VIId

Test Cut/Shovel Test: B  
Opening Depths (in.): 43/60  
Closing Depths (in.): 45.5/72

Stratum Description: Yellow/Brown Silty Sand with Red and Yellow Clay

Quantity	Artifact	Description
2 pc	flat glass	1 green tinted, 1 clear
1	safety pin	clasp end from metal safety pin
1	nail fragment	
2.4 gms	coal/cinder/slag	
27.4 gms	marine shell	

Catalog Number: 51  
Stratum/Level: VIIa

Test Cut/Shovel Test: B  
Opening Depths (in.): 45.5/72  
Closing Depths (in.): 57/83

Stratum Description: Gray/Brown Silty Sand

Quantity	Artifact	Description
1	flake, resharpening	yellow/brown jasper
1 sherd	pearlware/white ware	blue transfer printed
1 pc	curved glass	clear
1	bullet cartridge	.22 caliber
4.1 gms	coal/cinder/slag	
1 pc.	bone	mammal
64.3	marine shell	

Catalog Number: 52  
Stratum/Level: VIIId

Test Cut/Shovel Test: B  
Opening Depths (in.): 57/83  
Closing Depths (in.): 63/90.5

Stratum Description: Gray/Black Sand mottled with Yellow/Brown Sand  
and Rust/Gray Clay

Quantity	Artifact	Description
2	blocky fragments	1 black chert; 1 yellow jasper, heated
1 sherd	white salt glazed stoneware	plain
1 sherd	slipware	buff paste
1 sherd	white ware	blue transfer printed
1 pc	curved glass	clear
16.6 gms	coal/cinder/slag	
2 pcs.	bone	mammal
73.4 gms	marine shell	

Catalog Number: 53  
Stratum/Level: IXa

Test Cut/Shovel Test: B  
Opening Depths (in.): 63/90.5  
Closing Depths (in.): 73/92

Stratum Description: Brown Silty Sand Mottled with Red and Orange Clay

Quantity	Artifact	Description
2	flakes	black chert
1 sherd	slipware	red/buff body
1 sherd	earthenware paste	red/buff paste, no glaze
1 pc	lead glaze	blue painted decoration, glaze only possibly from pearlware sherd
1 pc	bottle glass	dark green, patinated
1 pc	flat glass	green tinted
1	metal button	
1	nail fragment	
1 pc.	misc. metal	corroded
448.3 gms	red brick	2 pcs.
65.2	coal/cinder/slag	
1 pc.	bone	mammal
303.0 gms	marine shell	
44.7 gms	fire cracked rock?	

Catalog Number: 54  
Stratum/Level: Xa

Test Cut/Shovel Test: B  
Opening Depths (in.): 63/63  
Closing Depths (in.): 64/71.5

Stratum Description: Orange/Brown Sand

Quantity	Artifact	Description
1 sherd	slipware	red/buff body
2 sherds	white ware	1 plain, 1 brown glazed
3.5 gms	red brick	1 pc
1	nail, cut	
42.7 gms	coal/cinder/slag	
1 pc	bone	mammal
244.1 gms	marine shell	



Catalog Number: 55  
Stratum/Level: XIa

Test Cut/Shovel Test: B  
Opening Depths (in.): 73/92  
Closing Depths (in.): 90/94

Stratum Description: Light Orange/Brown Sand mottled with pink silty Clay

Quantity	Artifact	Description
1 sherd	delftware	plain
1 sherd	creamware	plain
1 sherd	pearlware	plain
2 sherds	red earthenware	1 black glazed interior and exterior; 1 unglazed (trace clear glaze)
1 sherd	gray stoneware	salt glazed
1 sherd	earthenware paste	unglazed "white" bodied earthenware
4 pcs	curved glass	2 dark green; 3 clear (1 from tableware rim)
2 pcs	flat glass	green tinted
277.2 gms	red brick	9 pcs.
38.3 gms	coal/cinder/slag	
1 pc	bone	mammal long bone
570.4 gms	marine shell	
1	walnut shell	

Catalog Number: 58  
Stratum/Level: XIIa

Test Cut/Shovel Test: B  
Opening Depths (in.): 90/94  
Closing Depths (in.): 97/99.5

Stratum Description: Brown and Gray Mottled Sand

Quantity	Artifact	Description
1	flake	black chert
1	chip	black chert
1	blocky fragment	quartz, probably naturally fractured
1	spall	black chert, probably naturally fractured
3 pcs	curved glass	light green
0.3 gms	marine shell	(1 pc)

Catalog Number: 59  
Stratum/Level: XIIIa

Test Cut/Shovel Test: B  
Opening Depths (in.): 97/99.5  
Closing Depths (in.): 99/101

Stratum Description: Light Gray Hard-Packed Sand with Rocks

Quantity	Artifact	Description
0.1 gms	marine shell	1 pc. oyster

# TEST UNIT C

Catalog Number: 30  
Stratum/Level: Ia

Test Cut/Shovel Test: C  
Opening Depths (in.): 0/3.5  
Closing Depths (in.): 5.25/9

Stratum Description: Dark Brown Silty Sand - Humus

Quantity	Artifact	Description
1 pc	ceramic mosaic tile	
45 pcs	curved glass	clear, all from same bottle; one pc. has metal screw top attached 4 pcs has portion of label - from Lentheric perfume
3 pcs	flat glass	2 green tinted; 1 clear with silver backing (from mirror)
1	metal office stamp	with wooden knob handle (device for stamping date or other information)
1	bullet cartridge	.32 caliber
1	metal button	embossed eagle
5 pcs.	misc. metal	corroded (2.0 gms)
102.4 gms	coal/cinder/slag	
139.7 gms	marine shell	

Catalog Number: 31  
Stratum/Level: IIa

Test Cut/Shovel Test: C  
Opening Depths (in.): 5.25/9  
Closing Depths (in.): 17.5/18

Stratum Description: Reddish Sand with Black and Yellow Mottling  
with Pockets of Pink Clay

Quantity	Artifact	Description
9 sherds	prehistoric ceramic	4 grit tempered; 3 plain, 1 incised; 5 eroded sherds, probably leached shell tempered, eroded exterior surface possibly cord marked
1 sherd	porcelain	plain white
5 sherds	white ware	1 blue transfer printed; 3 plain, 1 from bowl base
6 sherds	white ware, slip decorated	molded exterior, buff/white body and white pipeclay slip decoration (from same vessel as catalog #35)
26 sherds	buff/white earthenware	1 with brown glaze, others with brown/pink slip, from ceramic pipe
9 pcs	curved glass	3 light green, 1 w. mold seam, 1 w. embossed letters; 6 clear

8 pcs	flat glass	6 clear; 2 green
11 pcs	fabric	
3 pcs	burned paper	possibly newspaper, partially burned
23	nails	21 wire, 2 cut
19	nail fragments	
2 pcs	threaded pipe	
18 pcs	misc. metal	corroded
71.2 gms	mortar	4 pcs, 1 charred
980.7 gms	red brick	8 pcs, 3 possible burned, 2 lg. pcs. (922.1 gms)
454.3 gms	coal/cinder/slag	
1049.0 gm	lime	inc. one large mass (940.9 gms)
0.1 gms	charcoal	1 pc
3.5 gms	misc burned material	4 pcs
1 pc.	bone	bird
1162.1 gm	marine shell	

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 Catalog Number: 35  
 Stratum/Level: IIIa

Test Cut/Shovel Test: C  
 Opening Depths (in.): 16/18  
 Closing Depths (in.): 22/25

Stratum Description: Orange/Brown Sand Mottled with Dark Brown Sand  
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Quantity	Artifact	Description
2	flakes	yellow jasper, 1 heated
2 sherds	whiteware, slip decorated	molded exterior, buff/white body and white pipeclay slip decoration (from same vessel as catalog #31)
3 sherds	white/buff earthenware	light brown slip (possibly from ceramic pipe)
3 pcs	curved glass	1 blue/green, 1 olive green, 1 clear with mold seam
1 pc	flat glass	clear
8	nail fragments	3 wire, 2 cut, 3 unident
1 pc	threaded pipe	
1 pc	misc. metal	
388.3 gms	mortar	
0.5 gms	coal/cinder/slag	1 pc.
13.2 gms	burned mortar?	
37.8 gms	lime	
1 pc	chert	burned
556 gms	fire cracked rock	
563.9 gms	marine shell	
4.7 gms	charcoal	

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Catalog Number: 36  
Stratum/Level: IIIb

Test Cut/Shovel Test: C  
Opening Depths (in.): 22/25  
Closing Depths (in.): 30/31

Stratum Description: Black Sandy Silt Mixed with Yellow/Brown Sand

Quantity	Artifact	Description
1	flake, utilized	yellow jasper, heated
7	flakes, resharpening	3 yellow jasper, 3 black chert 1 argillite
18	flakes	1 red jasper, 4 yellow jasper 10 black chert, 1 gray chert 2 argillite
5	chips	1 yellow jasper, 1 black chert, 3 argillite
1	blocky fragment	argillite
1 sherd	whiteware	plain
1 pc	rubber	molded surface
1.3 gms	red brick	1 pc.
1	metal rod	10 in. long, .4 in. diameter
1 pc	misc. metal	
0.8 gms	cinder	1 pc
1.0 gms	burned wood	1 pc
13 pcs.	bottled glass	5 blue/green, 1 with embossed letters "...YN."; 1 light green; 2 dark green; 2 blue, 1 from bottle neck, 1 with trace embossed letters; 1 amber; 2 clear
5 pcs	bone	mammal, inc. 1 tooth fragment
2563.7 gm	marine shell	
205.0 gms	fire cracked rock	
1026.8 gm	red sandstone	1 lg. pc, charcoal stained, possibly fire cracked

Catalog Number: 37  
Stratum/Level: IVa

Test Cut/Shovel Test: C  
Opening Depths (in.): 30/31  
Closing Depths (in.): 37/37

Stratum Description: Dark Brown Sandy Silt Mixed with Yellow/Brown  
Sand in Southern Half

Quantity	Artifact	Description
1	denticulate	black chert, on blocky fragment, decortication (4.5 x 3.5 x 1. cm)
7	flakes, resharpening	4 yellow jasper, 3 black chert
12	flakes	8 yellow jasper; 2 black chert; 2 argillite, 1 decortication
1 sherd	pearlware/whiteware	blue edge ware
36 pcs	bottle glass	14 blue/green, 2 with traces of embossed lettering (...WAY...); 2

		blue; 11 dark green; 4 amber; 5 clear
1 pc	misc. metal	corroded
1 pc	rubber	molded surface
0.9 gms	red brick?	1 chip
0.5 gms	mortar	1 pc.
1 pc	stone	with adhering lime/mortar
1.1 gms	coal/cinder/slag	
2	pcs. bone	mammal
2615.7 gm	marine shell	
0.3 gms	charcoal	2 pcs.
111.2 gms	fire cracked rock	

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 Catalog Number: 42  
 Stratum/Level: Va

Test Cut/Shovel Test: C  
 Opening Depths (in.): 37/37  
 Closing Depths (in.): 45/46

Stratum Description: Dark Brown Sandy Silt (northeast portion of unit)  
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Quantity	Artifact	Description
2	flakes, resharpening	black chert
7	flakes	4 yellow jasper, 2 black chert, 1 unident. sedimentary rock
2	chips	1 black chert, 1 yellow jasper
1 sherd	delftware	blue decorated
23 pcs	curved glass	11 blue/green; 2 blue; 7 green tinted; 2 amber; 1 clear, from rim of table glass
1	nail fragment	cut/wrought
1	wood screw	
0.9 gms	red brick	1 pc.
0.6 gms	cinder/slag	1 pc.
5 pcs.	bone	mammal, 1 burned
1106.5 gm	marine shell	
116.5 gms	fire cracked rock	

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 Catalog Number: 43  
 Stratum/Level: VIa

Test Cut/Shovel Test: C  
 Opening Depths (in.): 37/37  
 Closing Depths (in.): 46/46

Stratum Description: Light and Dark Brown Sandy Silt Mottled with  
 Yellow/Brown Sand (southwest portion of unit)  
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Quantity	Artifact	Description
1 sherd	prehistoric ceramic	rim sherd, grit tempered, plain; flat, possibly collared rim
1	resharpening flake	black chert
6	flakes	1 red jasper, 3 yellow jasper, 2 black chert

1	spall	black chert
1	sherd slipware	red body; brown slip
8	pcs curved glass	3 dark green, 2 blue/green, 1 blue, 2 amber
1	nail fragment	corroded, probably from cut nail
0.8 gms	cinder	1 pc.
8.5 gms	red brick	
6 pcs	bone	mammal
1283.2 gm	marine shell	
37.8 gms	fire cracked rock?	inc. 1 small pc. possible ground stone

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 Catalog Number: 46  
 Stratum/Level: Vb

Test Cut/Shovel Test: C  
 Opening Depths (in.): 46/46  
 Closing Depths (in.): 53/60

Stratum Description: Dark Brown Silty Sand with Yellow/Brown  
 Mottling

Quantity	Artifact	Description
1	scraper	yellow jasper (2.3 x 2.5 cm, 1.5 cm max thickness), denticulate edge
1	flake, utilized	black chert
4	flakes, resharpening	2 yellow jasper, 2 black chert
9	flakes	1 yellow jasper; 6 black chert (1 decortication); 1 gray chert (decortication); 1 argillite
6 sherds	gray salt glazed stoneware	brown slipped interior, inc. 1 handle from lid of crock.; 1 with brown glaze
1 sherd	gray stoneware	brown glaze
1 sherd	pearlware	plain
1 sherd	creamware	plain
10 sherds	whiteware	plain
1	spoon	portion of handle and bowl of large serving spoon, embossed decoration on lower portion of back of bowl and at top of handle on front
42 pcs	curved glass	18 blue/green, 2 from base of polygon shaped bottle, 1 with trace of embossed lettering; 16 light green, 3 with trace of embossed lettering and decoration; 4 dark green; 4 blue, 2 with traces of embossed lettering
1 pc	flat glass	green tinted
1 pc	misc metal	copper, patinated (0.1 gms)
1	cut nail	2.5 in. long
25.1 gms	red brick	5 pcs
49.8 gms	coal/cinder/slag	

1174.9 gm marine shell

889.5 gms oyster, 283.6 gms hard  
shell clam, 1.8 gms whelk  
(columnella fragment, uncut)  
2 mammal, 1 cut/sawn; 2 bird

4 pcs bone  
2635.5 gm fire cracked rock

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Catalog Number: 56  
Stratum/Level: VIIa

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Test Cut/Shovel Test: C  
Opening Depths (in.): 53/60  
Closing Depths (in.): 60/66

Stratum Description: Yellow/Brown Sand Mottled with Pink Sand  
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Quantity Artifact Description

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2.2 gms marine shell 0.7 gms hard shell clam; 1.5  
gms oyster  
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Catalog Number: 60  
Stratum/Level: VIIb - VIIIa

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Test Cut/Shovel Test: C  
Opening Depths (in.): 60/66  
Closing Depths (in.): 68/70

Stratum Description: VIIb - Yellow/Brown Sand with Pink Sand Mottling  
VIIIa - Rust Brown-Gray/Red Silty Clay  
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Quantity Artifact Description

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No Cultural Materials  
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# TEST UNIT D

Catalog Number: 39

Stratum/Level: Ia

Test Cut/Shovel Test: D

Opening Depths (in.): 0/5

Closing Depths (in.): 8/10

Stratum Description: Humus (Not Screened)

Quantity	Artifact	Description
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No Cultural Materials

Catalog Number: 40

Stratum/Level: IIa

Test Cut/Shovel Test: D

Opening Depths (in.): 8/10

Closing Depths (in.): 12/14.5

Stratum Description: Yellow/Brown Sand (50% sample)

Quantity	Artifact	Description
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1 scraper

gray chert 2.2 x 1.6 cm,  
max. thickness 0.8 cm

1 flake

argillite, decortication

2 pcs curved glass

2 clear, 1 with stippled surface;  
1 green tinted

6 pcs. flat glass

clear

2 nails

wire

9.8 gms red brick

2 pcs

25.8 gms coal/cinder/slag

2 pcs bone

mammal

144.4 gms marine shell

441.6 gms fire cracked rock

Catalog Number: 41

Stratum/Level: IIb

Test Cut/Shovel Test: 41

Opening Depths (in.): 12/14.5

Closing Depths (in.): 16/22

Stratum Description: Reddish Clayey Sand with Gray/White Clay Mottling  
(1/3 sample)

Quantity	Artifact	Description
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1 quartz cobble

probably naturally fractured

1 pc. flat glass

molded corrugated exterior

3.9 gms coal/cinder/slag

1.6 gms marine shell

1 pc. hard shell clam

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Catalog Number: 44  
Stratum/Level: IIIa

Test Cut/Shovel Test: D  
Opening Depths (in.): 16/22  
Closing Depths (in.): 22/26  
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Stratum Description: Brown Silty Sand with Orange Mottling  
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Quantity	Artifact	Description
1	denticulate	argillite, 4.6 x 3.1 x 1.2 cm on large decortication flake
4	flakes, resharpening	1 black chert, 1 gray chert, 1 argillite, 1 red jasper
7	flakes	1 black chert, 2 gray chert, 1 brown/yellow jasper, 3 yellow jasper
1	chip	argillite
3 pcs	dressed stone	fragments of circular pc. dressed stone traces of holes bored through thickness (1.7 cm)
69.4 gms	marine shell	66.4 gms oyster, 3.0 gms hard shell clam
224.2 gms	fire cracked rock	
9.0 gms	coal/cinder/slag	4 pcs.

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Catalog Number: 47  
Stratum/Level: IIIb

Test Cut/Shovel Test: D  
Opening Depths (in.): 20.5/26  
Closing Depths (in.): 23/27  
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Stratum Description: Brown Silty Sand with some Orange Mottling  
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Quantity	Artifact	Description
4	flakes	1 black chert, 1 gray chert, 1 yellow/ brown jasper, 1 quartz
1 sherd	red earthenware	unglazed
11.1 gms	coal/cinder/slag	9 pcs
55.1 gms	marine shell	45.6 gms oyster, 9.5 gms hard shell clam
41.2 gms	fire cracked rock?	

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Catalog Number: 48  
Stratum/Level: IVa

Test Cut/Shovel Test: D  
Opening Depths (in.): 23/27  
Closing Depths (in.): 27/30

Stratum Description: Dark Orange/Yellow/Brown Sand

Quantity	Artifact	Description
3.0 gms	marine shell	oyster (2 pcs.)
665.7 gms	fire cracked rock	

Catalog Number: 57  
Stratum/Level: IVb

Test Cut/Shovel Test: D  
Opening Depths (in.): 27/30  
Closing Depths (in.): 35/36

Stratum Description: Dark Orange/Yellow/Brown Sand

Quantity	Artifact	Description
1	biface, denticulate	gray chert; 4 cm x 3.2 cm x 1.9 cm (max thickness), heated
1	flake, resharpening	gray chert
1	metal washer	approx. 1.7 cm diameter (corroded)
0.5 gms	marine shell	oyster (2 pcs.)
85.8 gms	fire cracked rock	1 pc.

Catalog Number: 61  
Stratum/Level: IVc

Test Cut/Shovel Test: D  
Opening Depths (in.): 35.5/37  
Closing Depths (in.): 35.5/52

Stratum Description: Dark Orange/Yellow/Brown Sand

Quantity	Artifact	Description
1	chip?	gray chert, probably naturally fractured
7.7 gms	fire cracked rock?	

# TEST UNIT E

Catalog Number: 62  
Stratum/Level: Ia

Test Cut/Shovel Test: E  
Opening Depths (in.): 1/1  
Closing Depths (in.): 23/24

Stratum Description: Humus, Brown Sandy Silt and Yellow/Brown Sand  
(removed by backhoe - not screened)

Quantity	Artifact	Description
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No Cultural Materials

Catalog Number: 63  
Stratum/Level: IIa

Test Cut/Shovel Test: E  
Opening Depths (in.): 23/24  
Closing Depths (in.): 23.5/24.5

Stratum Description: Brown Silty Sand Mottled with Yellow/Brown Sand

Quantity	Artifact	Description
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1 sherd	pearlware	plain
9.4 gms	red brick	3 pcs.
6.3 gms	coal/cinder/slag	
21.1 gms	marine shell	9.9 gms oyster, 11.2 gms hard shell clam
3.4 gms	charcoal	includes pcs of partially burned wood

Catalog Number: 64  
Stratum/Level: IIb

Test Cut/Shovel Test: E  
Opening Depths (in.): 23.5/25  
Closing Depths (in.): 28.5/31

Stratum Description: Brown Silty Sand with small amount of Yellow/Brown Sand Mottling

Quantity	Artifact	Description
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1	biface	knife, black chert (7.2 x 7.0 x 1.4 cm.)
3	flakes, resharpening	1 red jasper, 1 yellow jasper, 1 black chert
21	flakes	1 red jasper, 5 yellow jasper, 8 black chert, 6 gray chert, 1 argillite
18.3 gms	red brick	
8 pcs	bone	mammal, 2 lg pcs cut/sawn (from scapula); 6 small fragments



742.0 gms marine shell

597.5 gms oyster, 144.5 gms. hard  
shell clam

934.9 gms fire cracked rock

concretion, probably natural

2588.4 gm fire cracked rock

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Catalog Number: 65

Test Cut/Shovel Test: E

Stratum/Level: IIIa

Opening Depths (in.): 28.5/31

Closing Depths (in.): 32/33.5

Stratum Description: Yellow/Brown Sand Mottled with Brown Silty Sand  
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Quantity Artifact

Description

-----  
1 flake, resharpening

gray chert

1 flake

gray chert

16.7 gms marine shell

13.0 gms. oyster, 3.7 gms hard shell  
clam

10.7 gms fire cracked rock?  
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Catalog Number: 67

Test Cut/Shovel Test: E

Stratum/Level: IIIb

Opening Depths (in.): 32/33.5

Closing Depths (in.): 36/37

Stratum Description: Yellow/Brown Sand  
-----

Quantity Artifact

Description

-----  
5 flakes

2 gray chert, 3 argillite

0.9 gms coal

2 pcs.

5.0 gms marine shell

oyster

31.7 gms fire cracked rock  
-----

Catalog Number: 68

Test Cut/Shovel Test: E

Stratum/Level: IIIc

Opening Depths (in.): 36.5/37

Closing Depths (in.): 46/46

Stratum Description: Yellow/Brown Sand  
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Quantity Artifact

Description

-----  
2 chips

1 red jasper, 1 gray chert

0.6 gms coal

2 pcs.  
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Catalog Number: 69  
Stratum/Level: IIId

Test Cut/Shovel Test: E  
Opening Depths (in.): 46/46  
Closing Depths (in.): 48/51.5

Stratum Description: Yellow/Brown Sand

Quantity	Artifact	Description
1	nail fragment	corroded
0.6 gm	coal	2 pcs.

Catalog Number: 72  
Stratum/Level: IVa

Test Cut/Shovel Test: E  
Opening Depths (in.): 48/51.5  
Closing Depths (in.): 50/56

Stratum Description: Yellow Brown Sandy Silt mottled with Yellow/Brown Silty Sand

Quantity	Artifact	Description
0.7 gms	marine shell	oyster (1 pc.)
0.5 gms	coal	1 pc.

Catalog Number: 75  
Stratum/Level:

Test Cut/Shovel Test: E extension  
Opening Depths (in.): 31/31  
Closing Depths (in.): 68/68

Stratum Description: All soil shoveled out - not screened

Quantity	Artifact	Description
	No Cultural Materials	

# TEST UNIT F

Catalog Number: 70  
Stratum/Level: Ia

Test Cut/Shovel Test: F  
Opening Depths (in.): 0/2.5  
Closing Depths (in.): 9/13

Stratum Description: Surface Strata (see profiles) - Not Screened

Quantity	Artifact	Description
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No Cultural Materials

Catalog Number: 73  
Stratum/Level: IIa

Test Cut/Shovel Test: 73  
Opening Depths (in.): 9/13  
Closing Depths (in.): 14.5/17

Stratum Description: Dark Orange/Brown Sand

Quantity	Artifact	Description
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20 sherds whiteware

5 from plate rim w. gold band painted overglaze and overglaze painted floral decoration; 1 from plate base with makers mark "ACOMA"; 1 burned plain white

1 sherd porcelain

1 sherd bisque porcelain

pinkish/orange exterior; probably from doll

12 sherds red earthenware

46 pcs curved glass

unglazed (from flowerpot), 2 charred 2 dark green; 24 blue/green, 1 with traces embossed lettering; 20 clear pressed glass, 1 with decorated exterior, 1 with decorated rim

2 pcs table glass

10 pcs flat glass

1 comb tooth

green tinted  
hard rubber

2 nail fragments

1 wire, 1 corroded (unident)

1 pc metal wire or nail

2 wood screws

122.0 gms coal/cinder/slag

14.9 gms marine shell

Catalog Number: 74  
Stratum/Level: IIb

Test Cut/Shovel Test: F  
Opening Depths (in.): 14.5/17  
Closing Depths (in.): 18/20.5

Stratum Description: Dark Orange/Brown Sand

Quantity	Artifact	Description
1	fragment	yellow/brown jasper, probably naturally fractured
2 sherds	red earthenware	unglazed
1 sherd	white ware	plain
8 pcs	bottle glass	light green, 1 from bottle base
1	nail fragment	unident
5.3 gms	coal/cinder/slag	5 pcs.

Catalog Number: 76  
Stratum/Level: IIIa

Test Cut/Shovel Test: F  
Opening Depths (in.): 18/20.5  
Closing Depths (in.): 23.5/30

Stratum Description: Light Orange/Brown Silty Sand with Brown Sand Mottling

Quantity	Artifact	Description
1 pc	porcelain	plain white, molded
15 pcs	curved glass	14 light green, 1 with embossed lettering; 1 clear
6.1 gms	coal/cinder/slag	
220.0 gms	fire cracked rock?	1 pc.



# SITE B SHOVEL TESTS

Catalog Number: 71/1  
Stratum/Level: I

Test Cut/Shovel Test: N185W185  
Opening Depths (in.): 0  
Closing Depths (in.): 4

Stratum Description: Humus

Quantity	Artifact	Description
2 pcs	marine shell	1 pc. oyster, 1 pc hard shell clam (discarded in field)

Catalog Number: 71/2  
Stratum/Level: II -III

Test Cut/Shovel Test: N185W185  
Opening Depths (in.): 4  
Closing Depths (in.): 11

Stratum Description: 4-11" Orange Brown Sand Mottled with Pink Sand

Quantity	Artifact	Description
1 sherd	slipware	buff body, brown slip
11.4 gms	coal/cinder/slag	
41.8 gms	marine shell	

Catalog Number: 71/3  
Stratum/Level: III - IV

Test Cut/Shovel Test: N185W185  
Opening Depths (in.): 11  
Closing Depths (in.): 24

Stratum Description: 11-20" Reddish Brown Sand with some Brown Mottling  
20-24 Orange Sand

Quantity	Artifact	Description
8.1 gms	coal/cinder/slag	
60.3 gms	marine shell	

Catalog Number: 71/4  
Stratum/Level: V

Test Cut/Shovel Test: N185W185  
Opening Depths (in.): 24  
Closing Depths (in.): 34

Stratum Description: Medium Brown Silty Sand

Quantity	Artifact	Description
0.7 gms	coal	
23.7 gms	marine shell	10.3 gms oyster, 13.4 gms hard shell clam
205.8 gms	fire cracked rock	1 pc.

Catalog Number: 71/5  
Stratum/Level: VI

Test Cut/Shovel Test: N185W185  
Opening Depths (in.): 34  
Closing Depths (in.): 42

Stratum Description: Yellow/Orange Sand

Quantity	Artifact	Description
9.7 gms	marine shell	oyster (3 pcs.)
71.9 gms	fire cracked rock	2 pcs.

Catalog Number: 77/1  
Stratum/Level: I - V

Test Cut/Shovel Test: N175W165  
Opening Depths (in.): 0  
Closing Depths (in.): 28

Stratum Description: 0-6" Humus  
6-11" Orange/Brown Sand Mottled with Light Brown Sand  
11-15" Red Clayey Sand with Pebbles  
15-21" Red/Brown Sandy Silt  
21-28" Orange/Brown Sand

Quantity	Artifact	Description
1	projectile point	gray chert, triangular, probably Levanna type, broken at tip and one corner (1.8 x 2.0 x 0.4 cm)
1 sherd	porcelain	plain white, hole through sherd, possibly from collander?
1	bottle neck	from medicine bottle, mold seam ends on neck, .6" below rim
5 pcs	curved glass	clear, 1 with traces embossed lettering, 1 burned
1	metal handle	from change purse or woman's handbag
7	nails and fragments	4 wire, 3 cut

2 pcs	misc. metal	
24.1 gms	mortar	1 pc.
46.3 gms	coal/cinder/slag	
197.7 gms	marine shell	

Catalog Number: 77/2	Test Cut/Shovel Test: N175W165
Stratum/Level: VI	Opening Depths (in.): 28
	Closing Depths (in.): 36

Stratum Description: Light Brown Sandy Silt

Quantity	Artifact	Description
1 pc	pipe bowl	small fragment probably from bowl of kaolin smoking pipe
1 pc	curved glass	embossed letters "...R'S....Y?RUP?" (probably from medicine bottle)
1 pc.	metal chain	segment of brass chain, interlocking links
4	nails and fragments	2 wire, 2 cut, 1 unident.
1 pc	metal wire?	bent, metal staple?
1 pc	misc. metal	corroded
45.0 gms	marine shell	38.6 gms oyster, 6.4 gms hard shell clam

Catalog Number: 77/3	Test Cut/Shovel Test: N175W165
Stratum/Level: VI	Opening Depths (in.): 36
	Closing Depths (in.): 48

Stratum Description: Light Yellow/Brown Sand

Quantity	Artifact	Description
No Cultural Materials		

Catalog Number: 78/1	Test Cut/Shovel Test: N185W165
Stratum/Level: I	Opening Depths (in.): 0
	Closing Depths (in.): 26

Stratum Description: Black Sandy Silt; Brown Sandy Silt; Reddish Brown Sandy Silt; Yellow/Brown Sand (4 strata not screened separately)

Quantity	Artifact	Description
7 pcs	curved glass	2 blue/green; 5 light green
1 pc.	cellophane	
1 pc	stone w. corroded metal adhering	
34.0 gms	coal/cinder/slag	

69.0 gms marine shell

Catalog Number: 78/2

Stratum/Level: II

Test Cut/Shovel Test: N185W165

Opening Depths (in.): 26

Closing Depths (in.): 32

Stratum Description: Brown Sandy Silt

Quantity	Artifact	Description
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1 sherd	red earthenware	unglazed
2 pcs.	cellophane?	
0.4 gms	slag	1 pc.
5.4 gms	marine shell	0.4 gms oyster;
5.0 gms	hard shell clam	
10.1 gms	coal/cinder/slag	

Catalog Number: 78/3

Stratum/Level: III

Test Cut/Shovel Test: N185W165

Opening Depths (in.): 32

Closing Depths (in.): 42

Stratum Description: Yellow/Brown Sand

Quantity	Artifact	Description
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3.1 gms	coal/cinder/slag	
7.5 gms	marine shell	6.1 gms oyster; 1.4 gms hard shell clam

Catalog Number: 79

Stratum/Level: I/1

Test Cut/Shovel Test: N205W165

Opening Depths (in.): 0

Closing Depths (in.): 4

Stratum Description: Humus

Quantity	Artifact	Description
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No Cultural Materials

Catalog Number: 79  
Stratum/Level: II/2

Test Cut/Shovel Test: N205W165  
Opening Depths (in.): 4  
Closing Depths (in.): 8

Stratum Description: Yellow/Red Sandy Clay Mottled with Greenish Clay

Quantity	Artifact	Description
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No Cultural Materials

Catalog Number: 79/3  
Stratum/Level: III

Test Cut/Shovel Test: N205W165  
Opening Depths (in.): 8  
Closing Depths (in.): 18

Stratum Description: Hard Packed Red Sandy Clay with Pebbles and Rocks

Quantity	Artifact	Description
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No Cultural Materials

Catalog Number: 79/4  
Stratum/Level: IV

Test Cut/Shovel Test: N205W165  
Opening Depths (in.): 18  
Closing Depths (in.): 21

Stratum Description: Orange/Brown Sand

Quantity	Artifact	Description
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No Cultural Materials

Catalog Number: 79/5  
Stratum/Level: V

Test Cut/Shovel Test: N205W165  
Opening Depths (in.): 21  
Closing Depths (in.): 30

Stratum Description: Medium Brown Silty Sand

Quantity	Artifact	Description
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No Cultural Materials



Catalog Number: 79/6  
Stratum/Level: VI

Test Cut/Shovel Test: N205W165  
Opening Depths (in.): 30  
Closing Depths (in.): 35

Stratum Description: Reddish Brown Sandy Clayey Silt

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Quantity	Artifact	Description
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No Cultural Materials

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Catalog Number: 80/1  
Stratum/Level: I

Test Cut/Shovel Test: N212W149  
Opening Depths (in.): 0  
Closing Depths (in.): 6

Stratum Description: Black Humus

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Quantity	Artifact	Description
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2 sherds	red earthenware	unglazed, (from flowerpot), 1 charred
1 pc.	curved glass	clear
4 pcs	flat glass	clear
1	metal spike	6" long
1 pc	misc. metal	hardware attached to pc of wood
1083.1 gm	red brick	1 lg. pc. (4" x 2 1/4" - 1040.8 gm)
54.7 gms	coal/cinder/slag	
43 pcs	dressed wood	
7.6 gms	marine shell	
66.6 gms	fire cracked rock	

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Catalog Number: 80/2  
Stratum/Level: II

Test Cut/Shovel Test: N212W149  
Opening Depths (in.): 6  
Closing Depths (in.): 12

Stratum Description: Dark Gray/Brown Sandy Silt

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Quantity	Artifact	Description
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5 sherds	red earthenware	unglazed, from flowerpot
1 sherd	white ware	plain
1 sherd	white ware/ironstone	yellow glaze
2 pcs.	flat glass	clear
1	nail fragment	unident., corroded
2 pcs.	electrical wire	insulated
1 pc.	misc metal	flat iron bar, 8" long
155.8 gms	coal/cinder/slag	
188.4 gms	red brick	
4.6 gms	mortar	
42.8 gms	marine shell	

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Catalog Number: 80/3  
Stratum/Level: III

Test Cut/Shovel Test: N212W149  
Opening Depths (in.): 12  
Closing Depths (in.): 30

Stratum Description: Orange/Brown Sandy Silt mottled with Brown

Quantity	Artifact	Description
4 sherds	red earthenware	unglazed, from flowerpot(s)
2 pcs	curved glass	1 clear, 1 purple tinted w. trace embossed lettering
8 pcs.	flat glass	4 clear, 4 green tinted
34.5 gms	red brick	2 pcs
177.9 gms	coal/cinder/slag	
58.1 gms	marine shell	