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LANDMARKS PRESERVATION COMMISSION

STAGE 1B ARCHAEOLOGICAL SURVEY OF THE OAKWOOD BEACH WATER POLLUTION CONTROL PLANT EXPANSION PROJECT BOROUGH OF STATEN ISLAND, NEW YORK CITY RICHMOND COUNTY, NEW YORK

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FOYOR

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LIST OF PARTICIPANTS

Principal Investigator, Co-Author William I. Roberts IV -Field Supervisor, Co-Author Jesse Ponz -Laboratory Director, Data Paula M. Crowley -Processor Laboratory Technician Margaret Hrab-Perkowski -. Michael Cavalluzzi Backhoe Operator -Word Processor Jennifer Flood

STAGE IB ARCHAEOLOGICAL SURVEY OF THE OAKWOOD BEACH WATER POLLUTION CONTROL PLANT EXPANSION PROJECT BOROUGH OF STATEN ISLAND RICHMOND COUNTY, NEW YORK

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INTRODUCTION

The purpose of this Stage 1B Archaeological Survey is to document the presence or absence of potential prehistoric archaeological resources within the Oakwood Beach Water Pollution Control Plant Expansion Project Area in Staten Island, New York City, Richmond County, New York, through the use of physical testing techniques.

The project area is approximately 1440 feet northwest to southeast by 890 feet northeast to southwest in size. Our testing was limited to parts of the eastern and southern areas of the present Water Pollution Control Plant property. See Figure 1 for the location of the project area.

Though the grade of the Water Pollution Control Plant slopes from approximately 4.0 feet above sea level in the north to 17.1 feet towards the south, the surface of the project area was nearly level, ranging from approximately 8.0 feet above sea level in the north to 9.7 feet in the east. The portion of the plant that lies within the project area has been landscaped and consists primarily of grasses, shrubs and occasional trees.

A study of the topography of the project area and its immediate vicinity indicates that this location is probably just to the northeast of a former freshwater source consisting of a pond and a marsh that drained into Raritan Bay. This situation would have provided prehistoric and historic peoples with a source of freshwater nearby and access to the marine resources of the bay (Roberts et al. 1990:28).

METHODOLOGY

The subsurface archaeological testing of the Oakwood Beach Water Pollution Control Plant Site in Staten Island, New York began on May 9, 1990 and was completed on May 10, 1990. As stated in our proposal for the Phase 1B survey, the technique used to expose buried surfaces and thereby determine the presence or absence of archaeological resources was the mechanical excavation of trenches. Three trenches were excavated by backhoe and closely monitored by archaeologists. This testing strategy was designed by the principal investigator, and approved by the New York State Department of Environmental Conservation, Division of Construction Management, Cultural Resources Section.



Figure 1: Location of Project Area shown on portion of U.S.G.S. 7.5 minute The Narrows, New York, and Arthur Kill, New York Quadrangles (1966, photorevised 1981).



The location of trenches was determined both by where planned construction impacts to potential archaeological resources were expected, and the avoidance of existing obstacles at the Oakwood Beach Water Pollution Control Plant. Three trenches were planned along the proposed new electrical conduit which is expected to be installed at 8 feet below present grade. Backhoe Trenches 2 and 3 were moved several feet from their original locations to a position parallel and adjacent to the proposed electrical conduit so as to avoid damage to a paved road and parking lot. Backhoe Trench 1 was similarly moved to a position parallel and adjacent to the electrical conduit at the discretion of Stone and Webster engineers to avoid existing services. See Figure 2 for the locations of the backhoe trenches.

The use of mechanical means of excavation expedites the removal of large quantities of fill. A total of 5,300 cubic feet of soil were removed from the trenches, the dimensions of which varied from 20 feet to 60 feet long, by 5 feet wide, and 8 feet to 9 feet deep. Plate 1 illustrates the backhoe in operation.

Soil samples were selectively removed from the trenches where distinct changes were observed. This soil was then screened through 1/4 inch mesh in order to recover artifacts. Artifacts were also recovered when they were observed in the trench by directing the backhoe operator to selectively remove them with the backhoe bucket. Soil strata were measured, described, and recorded for all trenches. All trenches were backfilled immediately following excavation and the recording of data.

STRATIGRAPHY

Three backhoe trenches at the Oakwood Beach Water Pollution Control Plant Site were excavated in order to uncover various depths of landfill, and thereby expose any evidence of prehistoric occupation in the area. The following summary of the stratigraphy will identify the layers of soil by color (including references to the geologic color standards set forth in the <u>Munsell Soil Color Charts</u>), texture, thickness, and inclusions. A more detailed description of the cultural materials recovered from the various strata will be discussed in the section Artifact Analysis. Copies of the forms used to record data collected in the field are attached to this report as Appendix 2. The recording system used for this project is known as the Context System and is explained in Appendix 3.

All three backhoe trenches were located in landscaped portions of the Water Pollution Control Plant. The topsoil in each case was a layer of silty loam ranging in depth from 0.4 feet to 0.7 feet, and varying in color from dark yellow brown (Munsell color: 10 YR 3/4) to very dark brown (10 YR 2/2). Beneath the topsoil, there were either three of four layers of fill. In backhoe trenches 1 and 3, these layers of fill continued down to the bottom of the unit to depths of 8.0 feet to 9.0

feet. In Backhoe Trench 2, a layer of naturally deposited soil was encountered beneath the fill.

The layers of fill of Backhoe Trench 1 were consisted of a range of soils including clays, silts, and sands. Soil color also exhibited a large degree of variance, and included dark yellow brown (10 4/4), grey brown (2.5 Y 5/2), and dark brown (7.5 YR 3/4). Cultural materials recovered included items representing food consumption activities (such as bottle glass and metal cans) and building materials (including bricks and fragments of ceramic tile). See Plate 2 for a view of Backhoe Trench 1.

The layers of fill in Backhoe Trench 2 varied in thickness from 0.8 feet to 5.1 feet, and ranged in soil type from clayey silt to silty sand. Soil colors included very dark grey brown (10 YR 3/2), strong brown (7.5 YR 4/6), and brown-dark brown (7.5 YR 4/4). The artifacts recovered from these strata were similar to those recovered from the fill layers in Backhoe Trench 1 representing everyday activities and building materials. The bottommost stratum of the trench, encountered at a depth of 7.5 feet below surface, was a layer of dark brown (7.5 YR 3/4) sandy silt with black organic silt (10 YR 2/1) including decomposing reeds. This layer, approximately 1.5 feet thick, represented a layer of natural soil from the marsh, and was devoid of cultural material. See Plate 3 for a view of Backhoe Trench 2 including this stratum.

The layers of fill in Backhoe Trench 3 were all comprised of silty sand, but significantly varied in color and the types and quantities of cultural materials contained therein. The upper layer of fill, approximately 1.4 feet thick, was dark brown (10 YR 3/3) in color, and yielded a small quantity of cultural materials associated with domestic use. The intermediate fill layer was yellow red in color (10 YR 4/6) and exhibited very few finds of cultural material. The bottommost level of fill which was black (10 YR 2/1) in color continued down to the bottom of the trench. This stratum, which varied in thickness from 3.3 feet to 4.3 feet, yielded a number of whole glass containers most of which date to the twentieth century. See Plate 4 for a view of Backhoe Trench 3 including these strata.

ARTIFACT PROCESSING, ANALYSIS AND INVENTORY

Subsequent to all fieldwork, all recovered materials were washed, marked, stabilized, and catalogued in the Greenhouse laboratory. The majority of artifacts were washed in room temperature tap water with added ORVUS paste (modified sodium lauryl sulfate), which is a non-ionic detergent. Harsh detergents leave an alkali residue if not completely rinsed away, which will chemically attack certain artifacts (the overglazed decoration on porcelain, for instance). ORVUS is a mild and free-rinsing surface active agent with a low pH of 6.3. Metal artifacts were systematically dewatered by submersion in acetone immediately after rinsing. The drying procedure was dependent upon the condition and material class of the artifact. The standard procedure employed was slow air drying on screens in the laboratory processing area.

All recovered materials were then catalogued according to the National Park Service Material Culture Data Base taxonomy for artifacts (see Appendix 1). All historic artifacts were coded as to group, class and material. All diagnostic artifacts such as glass and ceramics were dated based on stylistic and technical criteria according to the TPQ (terminus post quem, or the beginning date of manufacture). The TPQ provided a time frame for establishing the initial date after which the deposit had to have been laid down. During tabulation, the National Park Service code system was applied to the group, class and material level.

Subsequent to cataloging, all artifacts were then computer inventoried as a file in dBase III+, which provided sorted catalogues with totals and numbers for each excavated group of artifacts by units of stratigraphic association. The final inventory is reproduced on paper and appears as Appendix 1.

Artifact Analysis Results

A total of sixty-five objects were recovered from the test trenches excavated at the Oakwood Beach Water Pollution Control Plant. These items come from three contexts and their decimal subdivisions. No prehistoric artifacts were recovered.

Approximately one-third of the artifacts recovered consist of glass. The largest group of glass artifacts are glass containers such as beer, milk and soda bottles. It is possible to date the bottle glass due to the presence of diagnostic attributes such as the neck and finish. The nine whole bottles and one salt shaker recovered from the lowest stratum in Backhoe Trench 3 were produced on fully automatic bottle machines, and therefore, post date 1903. The date range of two of these bottles can be further narrowed down by a label on one and an embossment on the other. On a Mission Beverages bottle, the year 1912 appears on the label, thus providing its own TPO. Another bottle is embossed "Federal Law Forbids Sale or Reuse of this bottle", indicating a TPQ following the end of the Prohibition period (Munsey 1970). The remainder of the glass artifacts consist of fragments too small to determine the shape or date of the original container.

Over one-fifth of the artifacts recovered are fragments of ceramics. Two of the ceramic sherds are ironstone which was patented in 1813 in England (Noel Hume 1969:31). Three sherds were identified as whiteware. This was initially produced during the 1820s (South 1972). Some of these sherds may be the thick undecorated whiteware that was introduced in 1858 (Price 1979), but their small size makes such distinctions very difficult. Also represented in this collection are sherds of porcelain and earthenware, both of which were in existence prior to the nineteenth century. Metal containers are also represented on the site by a carbonated beverage can and a can lining. Both artifacts indicate that they were opened by a removable "pop top", the TPQ of which is 1962 (Busch 1981).

RESULTS

Greenhouse Consultants performed Stage 1B archaeological testing at three locations within the Oakwood Beach Water Pollution Control Plant Expansion specified as having potential prehistoric remains in the "Archaeological Sensitivity Evaluation for Eight Water Pollution Control Plants in New York City" (Roberts et al. 1990:31). Mechanical excavations were carried out in three backhoe trenches in order to expedite the removal of large quantities of landfill indicated by the soil borings performed by Warren George, Inc., during July, August and November 1989.

Analysis of the data obtained from trenches 1 and 3 indicates that proposed construction activities at the specified sites will not adversely affect any archaeological resources that may remain buried in the area. While evidence of cultural activity was recovered from both excavation units, no evidence was obtained indicating prehistoric or early historic activities in these test locations. Backhoe Trench 2 encountered the surface of the original marsh prior to the landfilling, at approximately 7.5 feet below the present surface.

Analysis of Backhoe Trench Units

All three backhoe trenches were located near the proposed new electrical conduit which runs between the existing electrical substation and an area southwest of the main building.

Backhoe Trench 1 was excavated to depths of up to 9.0 feet, well below the depth of proposed impact (approximately 8.0 feet). Four strata of fill were encountered at a depth of 0.4 feet down to the bottom of the trench. Cultural materials recovered from these layers consisted of fragments of glass, and plastic, a metal beverage can, and materials associated with construction activities, including brick, wood and tile. The beverage can had a removable "pop top" which was common during the late 1960s and early 1970s.

Backhoe Trench 2 was excavated to depths of 9.0 feet, well below the depth of projected impact (8.0 feet). Three strata of fill were observed. Artifacts recovered from these layers consisted of fragments of glass, plastic, clothing, a metal' beverage can with a "pop top" and material associated with construction activities, including brick, wood and tile. A layer of subsoil (sandy silt mixed with organic silt and decomposing reeds) was encountered beneath the fill to the bottom of the trench. This layer represents the original marsh. Although no prehistoric cultural remains were recovered from the samples removed, the potential for such remains cannot be dismissed. This location is within 200 yards of a prehistoric site reported during the early years of this century (Skinner 1909:17). It appears likely that the fill encountered in both Backhoe Trenches 1 and 2 dates to the construction of the present Water Pollution Control Plant at Oakwood Beach circa 1970, based on the "pop top" beverage cans.

Backhoe Trench 3 was excavated to a depth of 8.0 feet to 9.0 feet, below or contiguous with the depth of proposed impact (8.0 feet). Three layers of fill were observed down to the bottom of the trench, yielding ceramics, bathroom porcelain, and glass containers. Several of these bottles have enameled labels, including one with the date 1912. This group of artifacts contains no metal beverage cans which were seen in the fill layers of Backhoe Trenches 1 and 2. It appears quite likely that these artifacts and the fill that contained them pre-date the construction of the earlier Water Pollution Control Plant here circa 1955.

CONCLUSIONS AND RECOMMENDATIONS

It is our conclusion that no potentially significant cultural resources were found within the three mechanically excavated test trenches. Based on this subsurface testing, we further conclude that it is highly unlikely that any significant cultural resources will be impacted by the proposed expansion of the Oakwood Beach Water Pollution Control Plant near Backhoe Trenches 1 and 3. We recommend that no additional archaeological testing or mitigation is necessary at these two locations. Backhoe Trench 2 encountered the original marsh surface at 7.5 feet below grade. A prehistoric site existed within this marsh approximately 200 yards away to the southwest. We recommend that if the impact must be to 8 feet as planned, then additional archaeological testing should be carried out close to this location to further search for prehistoric remains. If the maximum depth of the impact can be raised to 7 feet below grade or higher, then no additional testing would be recommended.

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Plate 1: View of backhoe excavation in action in Backhoe Trench 3.

Plate 2: View of Backhoe Trench 1 facing northwest. Scale in tenths of feet.





Plate 3: View of Backhoe Trench 2 facing northwest. The dark stratum at the bottom of the trench is an organic silt with decomposing reeds representing the original marsh surface.



Plate 4: View of Backhoe Trench 3 facing northwest. The dark stratum at the bottom is one of the layers that contained glass bottles and other debris from a former dump.

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APPENDIX I

THE COMPLETE ARTIFACT INVENTORY

including:

- Table 1: The National Park Service Material Culture Data Base Coding Chart (partial listing).
- Table 2: Coded examples from the Data Base.
- Table 3: Data Base Codes for Ambiguous Items.

01 LITCHEN GROUP

- 01 Dishes
- 02 Containers
- 03 Tablevare
- 04 Kitchenware
- BONE GROUP

02

- 01 Mammalia
- 02 Ares
- 03 Repuilia
- 04 Amphibia
- 05 Pisces
- 03 ARCHITECTURAL GROUP
 - O) Window Glass
 - OZ Nails
 - 03 Soikes
 - 04 Door & Window Hardware
 - 05 Other Structural Hardware
 - 06 Construction Materials
- FURNITURE GROUP 04
 - 01 Hardware
 - 02 Materials
 - 03 lighting Device
 - 04 Decorative Furnishings
- ARMS GROUP 05
 - Q1 Projectiles
 - OZ Cartridge Case
 - 03 Arms Accessories
 - 04 Gun Parts
- CLOTHING GROUP 06
 - 01 Apparel
 - 02 Ornamentation
 - 03 Making and Repair
 - 04 Fasteners
- 07 PERSONAL GROUP
 - 01 Coina
 - 02 Keys
 - 03 Writing Paraphernalia
 - 04 Grooming and Hygiene
 - Personal Ornamentation 05
 - 06 Other Personal Items
- KAOLIN TOBACCO PIPE GROUP 08 Ol Kaolin Pipe Class
- 04 Fishing Gear 05 Nonkaolin Pipe Ĵċ Spoking Accessories 07 Pottery Class 08 Storage Items 09 Ethnofaunal Zoological 10 Stable and Barn 11 Miscellaneous Hardware 12 Specialized Activities 13 Military Objects 14 Housekeeping 15 Public Services 16 Ethnobotanical 10 PREHISTORIC GROUP 01 Veapons 02 Domestic Stone Working 03 04 Wood Working 05 Digging Tools 06 Other Fabricating or Processing Tools 07 Other General Utility Tools 08 Ceremonial & Ornamental 09 Miscellaneous Artifacts UNSPECIFIED GROUP

MATERIALS - COMMON LIST (classified)

ORGANIC MATERIALS

INORGANIC MATERIALS

CERAMIC

- 003 earthenware ironstone/granite/whiteware 004
- 001 porcelain 002 stoneware
- 134 undifferentiated ceramic

CLAY

047 clay

062 kaolin

079 red clay

CONSTRUCTION

069 brick 071 cement

070 mortar

072 plaster

GLASS 078

elass 013 glass, milk 112 slag and clinker METALS 029 aluminum 035 chrome 026 cuprous metal 028 ferrous alloy 021 gold lead 034 096 Dercury 019 silver 032 steel 005 tin 136 undifferentiated metal STONE asbestos chalk cherc gravel jet limestone marble 058 obsidian ochre

CELLULOSTC 115 bark 108 burlap 128 charcoal 092 cork 087 'cotton 131 fiberboard/masonite 085 hean Oll paper 006 wood 121 cellulose seeds/seed covering CONSTRUCTION 093 asphalt 125 formica 101 linoleum 102 tar paper WAT 076 wax GIM/RESTN 010 rubber, elastic 009 rubber, hard PETROCHEMICALS 073 carbon 095 coal 048 graphite 116 tar PROTEIN 118 chitin (arthropod, exoskeleton) 106 felr 122 flesh 016 hair keratin (horns/fingernail/clavs) 117 015 leather 107 silk 090 sponge, natural 105 wool COMBINATION MATERIALS 017 bone 132 ivory 067 pearl 089 shell SYNTHETIC MATERIALS 103 celluloid 088 uylon 800 plastic 077 Soap 091 'sponge, synthetic 104 synthetic TEXTILE

151 undifferentiated textile

TABLE 1 The National Park Service Material Culture Database Coding Chart (partial listing).

98

GROUPS AND CLASSES

09

02

03

ACTIVITIES GROUP

Ol Construction Tools Farm Tools

Leisure Activities

129 agaze 075 133 052 046 109 038 041 049 mica 057 precious stone 860 053 quartz 054 quartzite 039 sandstone 044 shale 040 slate 060 steatite 043 schist undifferentiated stone 126 042 granite

GROUPS AND CLASSES



GROUPS AND CLASSES (cont'd)

01 KITCHEN 01 Dishes 02 Containers 03 Tableware

- 04 Kitchenware
- 02 BONE GROUP

01 Mammalia 02 Ares

- 03 Reptilia
- 04 Amphibia
- 05 Pisces
- 03 ARCHITECTURAL GROUP 01 Window Glass

02 Nails 03 Spikes 04 Door & Window Hardware

05 Other Structural Hardware

- 06 Construction Materials
- 04 FURNITURE GROUP 01 Hardware
 - 02 Materials 03 Lighting device 04 Decorative Furnishings
- 05 ARMS GROUP

01 Projectiles 02 Cartridge Case 03 Arm Accessories

03 Arm Accessorie 04 Gun Parts

- 06 CLOTHING GROUP
 - .01 Apparel
 - 02 Ornamentation
 - 03 Making & Repair
 - 04 Fasteners
- 07 PERSONAL GROUP

01 Coins

- 02 Keys
- 03 Writing Paraphernalia
- 04 Grooming & Hygiene
- 05 Personal Ornamentation
- O6 Other Personal Items
- 08 KAOLIN FIPE CROUP

0) Kaolin Pipe Class

Mammal Bones Bird Bones Reptile Bones

Bottle glass fragments

Cooking Utenzils, pot, kettle

Historic fragments, plate, cup, sait cellar

SAMPLE ARTIFACTS

Eating Utensils

Amphibian Bones

Fish Bones

Window pane glass Copper mails, iron mails Railroad spikes Doorknob, door hinge Pipe, fireplace tiles Brick, mortar, metal roofing

Handle, drawer pull, latch Stove parts, chair part, bed frame Candlestick, lamp base Flower pot, clock parts, wase

Shot, bullets Cartridge Gun flints, bullet molds, powder horn Pistol barrel, flint lock assembly

Hat, coat, scarves, glove, shoe Beads, sequin, hatpin, feather Thiable, straight pin, straight scissors Buttons, smaps, buckles, cuff links

Silver coins, copper coins Door lock keys, padlock keys Quill, fountain pen nib, graphite pencil Hair brush, razor, mirror, tweezers Jewelry, ribbon, ornamental comb Pocket watch, key chain, pocket knife

Kaolin pipe fragments

09 ACTIVITIES GROUP

- Ol Construction Tools O2 Farm Tools
- 03 Leisure Activities
- 04 Fishing Gear
- 05 Nonkaolin Pipe
- 06 Smoking Accessories
- 07 Pottery Class
- 08 Storage Item
- 09 Ethnofaunal Zoological
- 10 Stable and Barn 11 Hiscellaneous Hardware
- 12 Specialized Activities
- 13 Military Objects
- 14 Housekeeping
- 15 Public Services
- 16 Ethnobotanical
- 10 PREHISTORIC CROUP
 - Ol Veapons
 - OZ Domestic ·
 - 03 Stone Vorking
 - 04 Wood Working
 - OS Digging Tools
 - 06 Other Fabricating or Processing Tools
 - 07 Other General Utility Tools
 - 08 Ceremonial and Ornamental
 - 09 Miscellaneous Artifacts

Aze head, drill bit, saw, paint brush Hoe, rake, plow blade Marbles, jew's harp, doll parts Fish hooks, sinkers, crab trap Corncob pipe Snuff tin, tobacco tin, pipe cleaner (Indian) water jar, effigy pot Crock, barrel staves, sacks Oyster shells, crab shells Stirrup, horse shoe, rein, harness belt Rope, bolts, nuts, washers, chain Button blanks, metallurgic debris, saggars Insignia, bayonets Broom, coat hanger, washboard Sever pipe, water pipe

Projectile point, atlatl hook Vessel, mortar, pestle Rammerstone, baton, flake, core Celt, groaved axe Hoe Drill, chisel, needle

Inife, prismatic blade, chopper

Sheet, gorget, bead Function unknown

TABLE 2 Coded Examples from the Database.

THE ITEMS LISTED BELOW MAY BE AMBIGUOUS OR HARD TO PLACE IN A TAXONOMIC CATEGORY, BUT AS A CONVENTION, FOR INVENTORY PURPOSES, WILL BE CODED AS FOLLOWS:

98 00 006 Unident Wood Frags Construction Wood, Wooden 03 06 006 Pegs, Wood Flanks Twigs, Branches Burned Wood (Partial) 09 16 006 Code as wood (above) and put "burnt wood" in the comments section. Charcoal & all small frags Code as charcoal of completely burnt wood 98 00 095 Coa1 Slag, burned coal, vitrified metalworking or manufacturing 98 00 112 by~products 03 06 003 Pantiles Delft fireplace tiles, 04 04 003 wall skirting, etc. Porcelain bathroom tiles, other bathroom furniture 03 05 001 (tub, toilet, etc) Chamber Pot 04 02 () 04 04 003 Flower Pot 02 () 132 Teeth 09 09 118 Fish scales 98 00 119 Coral 09 09 119 Eggshell. 09 16 121 Seeds, Seed Covering 03 06 043 Schist (construction) 98 00 043 Schist (unident) 03 06 169 **Red Brick** 03 06 155 Yellow Brick 06 101 03 Linoleum 03 06 () Hetal Hardware (probably construction) 01 ()04 Furniture Hardware Misc. hardware (other and unident), screws, car 09 11 () parts 06 01 015 Leather Shoe Parts Unident Leather scraps 98 00 015 07 () 015 Leather Personal Items



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ARTIFACT INVENTORY DAKNOOD BEACH Borough of Staten Island Richmond County, New York

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Context	6р 	<u>[]</u>	Mat	Identity	Count	Weight	Connent	Reference	Range	TPQ
1.01	01	01	004	Ironstone	1	0.00	Thin	Lofstron etal 1976:14	•	1850
1.01	01	01	134	Ceramic	4	0.00	Spalls?			
1.03	01	02	029	Сал	3	0.00	Carbonated beverage "Coffectime" removable pop top	,		
1.03	01	02	079	Container	1	0.00	Green glass			
1.03	03	06	004	Wood	2	37.20	Cut			
1.03	03	05	069	Brick	2	140.90				
1.03	09	09	089	Shell	1	2.80				
1.04	03	06	069	Brick	1	160.40				
F.04	03	06	070	Nortar	1	108.30	with marble attachment			
1.05	01	02	009	Plastic lid	1	0.00	Cover to drinking container			
1.05	03	06	069	Brick	1	825.00	'Emp'			
2.02	01	02	104	Can lining	1	0.00	Lining from can lid removable pop top with baked on crud			
2.02	03	05	001	Inilet fixture	1	0.00	Porcelain thick			
.02	03	06	006	Wood	1	2.90	Cut			
2.03	លរ	02	013	Container	1	0.00	Milk glass	<u>.</u>		
2.03	06	01	015	Shoe	1	0.00	Sole heel	•		ć
2.04	01	01	001	Percelain	1	0.00	Thick			
2.04	03	06	003	EW/Brick?	1	0.00				
2.04	09	68	005	Notor oil can	1	0.00	ESSO			
3.02	01	01	004	Tronstone	2	0.00	Cup and handle mend thick undecorated			
3.02	01	01	004	Whiteware	1	0.00	Saucer fragment? footring transfer print	Lofstrom etal 1976		1820
3.02	10	01	004	Whiteware	1	0.00	Rim molded			
3.02	01	01	004	Ironstone	1	0.00	Rim Hotelware 2 green bands			
3.02	01	02	013	Container	3	0.00	Milk glass			
3.02	01	02	078	Container	ł	0.00	Glass lip threaded			
3.02	01	02	078	Container	2	0.00	Glass green			
3.02	03	05	001	Toilet cistern	1	0.00	Porcelain thick			
3.02	63	06	000	Constr material	1	0.00				
3.02	03	07	112	Slag	1	0.00				
3.02	04	04	003	Flowerpot	1	0.00	Burned			
3.02	07	U4	013	Cosmetic Jar	1	0.00	nilk glass "PUND'S" Base and part of body			
3,02	07	04	078	6)ass bottle	1	0.00	Complete blue 8-sided 'SQUIBB' Fully automatic	Lorrain 1968:43		1903
3.04	01	01	003	Earthenware	1	0.00	Blue			
2 .04	01	01	003	Earthenware	Ĩ	0.00	Green			
0.04	01	02	078	Glass bottle	1	0.00	*RBONATED BEVE	,		
arra setteride 🖉					-1221	-anv @ 26 55	TRIPLE FILERE			

RA-VIOLET R OTTLE ST

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ARTIFACT INVENTORY DAKNOOD BEACH BOROUGH OF SYNTEN ISLAND Richmond County, New York

X

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Context	Gp Cl Mat	Identity	Count	Weight	Comment	Reference	Range	TPQ
3.04	01 02 078	Glass bottle	1	0,00	Fragment of label Mission			
					Beverages			
3.04	01 02 078	Glass bottle	1	0.00	Complete green Fully automatic	Lorrain 1968:43		1903
3.04	01 02 078	Glass bottle	1	0.00	Complete 'Mission Beverages/Naturally Good' on label '1912' Fully automatic	Lorrain 1968:43		1903
3.04	01 02 078	Container	1	0.00	Glass Salt shaker? Complete 3-tiered middle tier plain lower and upper tier are barred Fully automatic	Larrain 1968:43		1903
3.04	0] 92 078	Glass bottle	1	0.00	Complete Milk/cream bottle Semi-automatic 'SEELIG'	Lorrain 1968:42		1881
3.04	01 02 078	Glass bottle	1	0.00	Complete Milk/cream bottle Semi-automatic "Soiefer" half pint liquid	Lorrain 1968:42		1881
3.04	01 02 078	Glass bottle	l	0.00	Complete 1 pint Fully automatic	Lorrain 1968:43		1903
3.04	01 02 078	Glass bottle	1	0.00	Complete cork inside Non-screw lip Fully automatic "FEDERAL LAW FORBIDS SALE OR REUSE OF THIS BOTTLE"	Lorrain 1969:43		1903
3.04	01 02 104	Screw-on cap	1	0.00				
3.04	04 03 001	Lamp fixture	1	0.00	Unglazed porcelain disc			
3.04	04 03 137	Lamp socket	4	0.00				
3.04	04 03 137	Lamp socket	1	0.00				
3.04	07 04 078	Aspirin bottle	1	0.00	Complete Fully automatic "THE BAYER CO. DIV."	Lorrain 1968:43		1903
3.04	07 04 078	Glass bottle	2	0.00	Complete with screw on cap Fully automatic 'Sani-Glas'	Lorrain 1968:43		1903
3.04	98 00 137	Handle?	I	0.00	Or insulation wire? Composite of metal core and plastic coating			
*** Total	XXX							
and the second second				1077 50				

65 1277.50

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APPENDIX II:

SURVEY RECORD FORMS

SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT :	8 W.P.C	P.S	COORDINATE	COORDINATES :					
SITE : DANWOOD BEACH	SUPERVISOR : ω R	EXCLUATOR : dP	SCREENED ? + "meet	DATE : 5/9/90	TEST TYPE AND NO. : パコテ ギノ				
STRATIGRA	ውዘ <u>ሃ.</u> :			- <u></u> ,	. <u>.</u>				
LAYER	DEPTH •	DESCRIPTION	COLOR	ÇÜLT. MAT.	NOTES				
4	0-0.4	Tay , Topent	· 10 YR =/2 V. D.K. BN	-					
2	0.4-1.2	Slight & claye	7 DR Yel.	plantin					
3	1.2 - 7.0"	Sharry fandy S.	25 7.5 YR 2/4 x 2 3x: Bay 1	metal com	store sheer				
4	7.0'- ?	Come and	2. 7.5 7 2 2 4 4 25. 8 4 2.5 45/2 6 24 8	Ceranne tile. Bria, tike					
'S	8.0 - ?	Siety clay	2.5 y 5/2 Gray Bal	Brier plantie					
6		85			<u></u>				
7	50				·				
8									
Give depths	relative to ground	surface	. !1_						
General Notes May	1 : (Note if alls, 1 1. Denth = mg file a	naterial retained, and it sois 91 mL with the =	6 C ' r 5 '		<u>.</u>				
Cross Refs :			genna	e shet - ha	ma 3 + 4				
Plan			North - 5.6,7 Photos East - 8, 9, 10						
Section			Notebook						

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SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT :	8 W.PC	Ps		COORDINA	res :	-	
SITE : Catharra Braid	SUPERVISOR :	EX	CAVATOR :	SCREENED + "man	1 4	DATE : 5/5/50	TEST TYPE AND NO. : e7 = 2
STRATIGR	ለዖዘΥ. ;			•			•
LAYER	DEPTH +	DES	CRIPTION	COLOR	çi	JLT. MAT.	NOTES
a	0.'-0.7'	Fing	y loam	10 412 2/2 V. DK. BN			
2	0.7-4.5(mar) 6457 END 0.7-1.6 (Min)	Sligh	the classy	10 yn 3/2 V. DK. Gray 6N	mi Ce	tal can,	rollowing artifact
13	1.6/45' +6.7'	SLIGH Sil	TY CLAYEY	STATE BA	ph 7	mill glors	
4	6.7'- 7.5'	Silt	ant france	7.5 YA +/+ Bu/bread	mal	alcan (600)	til
5	7.5'-9.0' (Bottom of her	Satur (Satur	y sier -	7.513/4 DK. BN	24	Alex 6	
6		det -	nie Suit w. npo sung weeds nel)				2
7							
8	d 100						а
* Give depths	relative to ground	surface		£			
General Note	s : (Note if cuit.) Cangth	material re and	tained, and if soil si width	$= \mathbf{D} \mathbf{O}'$	n.) r 5 '		<u> </u>
Cross Refs :					<i>i</i> -	<u> </u>	
Plan	-			Ea Photos Nu	-T	Trames 13	1 = 12 2 + 14
Sertion				Sizzaha - 1			

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SURVEY RECORD SHEET : Postholes, Auger holes, Shovel tests

PROJECT :	8 wpc	pś	COORDINATES :					
SITE : 0 A 44000 BEALM	SUPERVISOR :	EXCAVATOR :	SCREENED !	DATE : 5/10/90	TEST TYPE ANO NO. : 87773			
STRATIGRA	ሆዘץ. :		······································	•				
LAYER	DEPTH •	DESCRIPTION	COLOR	ÇÜLT. MAT.	NOTES			
4	0-0.6'	Tind i Topcoil Selly loan	10 YR 3/4 Dr. 4-1. Sal	_				
2	0.6-201	Silty sand	10 1 × 3/3 DX. BN	Ceranic comp blue gires to the Samton prices	-0),			
øs	2.0-4.7'	Silty Sand	5/YR4/6 Jel. Red	Ragnent.				
P4	4.7- 8+9'	sitz Same	10 YR 2/1 Black	16 glass Contai Ceneri forer, be etc.	~ .			
5								
6								
7								
8								
* Give depth	relative to ground	l surface,	L		<u> </u>			
General Note X	E: (Note If cut. NOTE. p Found w/; lingt li	material researced, and it soil as KETS OF GARY Low year 3.04 - acouch wind	amples are taken · Compare; -th = 4	N Frir(7.5%	2 Y/o) m5			
Cross Refs ; Plan			Phatos	Tranc; North 15,16,1 West 13,10	7.			
Section			Notebook East 21 + 22					

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APPENDIX III THE CONTEXT SYSTEM

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APPENDIX 3 THE CONTEXT SYSTEM

Complex strata were a possibility within the project area, so a field recording system that could encompass this situation as well as the large number of finds expected, was required. Another requirement of the system was that it be compatible with computerized data management. It was with these requirements in mind that the field recording system used in this project was selected.

The stratigraphic recording system used at the site was derived Erom recent developments in British archaeological field methodology, In this system, the term Context is used to represent the minimal unit of On this project, this was the smallest observable stratification. natural stratigraphic, deposit within a grid unit. A unique 3-digit Context number was used to identify each Context observed and described in the field. Contexts representing parts or all of strata are treated in exectly the same manner as those representing parts of all of the features. Each Context is given its own identifying Context number when initially described. It can then be interpreted as a feature or part of 8 stratum at any stage during the excavation or post-excavation stratigraphic analysis. In the case of deposits with a series of lenses or layers within a feature, decimal subdivisions of the Context number were employed (i.e. 397.02), to stress the relationship of these deposits as part of the same feature. This system can easily be used on a site where excavation by arbitrary stratigraphic units has been deemed The context was also used on this project to record the necessary. location of surface finds. both in relatively large areas and individually located artifacts.

The primary record of each Context is the Context or Survey Recording Sheet. Host of these forms should be self-explanatory. All the various slots and boxes were filled in immediately with the appropriate information by the excavator. Particular attention was paid to the accurate recording of the soil texture and inclusions, the Hunsell color reading, and the various stratigraphic inter-relationships.

There are a number of advantages in the Context recording system. The use of only one number register to identify all varieties of soil deposits eliminates the premature interpretation of deposits that was necessary with many other recording systems. It is often difficult, if not impossible, to classify soil deposits when they are initially uncovered. Using the Context system, deposits are simply assigned Context numbers and excavated. They can be interpreted or reinterpreted at any time during or after their excavation without any need to change their identifying Context number. This leads directly to the Context system's second advantage. There is no possibility of confusing numbers issued from one register with these from any others if there is only one number register used to record and identify soil deposits. Another advantage is derived from using this single identifying number not only for the soil deposits and its description, but also for all the artifacts from the deposit during all stages of their processing, analysis and curation. One further advantage is the ability to expand the system. The Context numbers are a potentially infinite sequence, so any size site or survey can be encompassed. The final advantage present here is that the Context system is a digital tecording system. As such, it is immediately adaptable for computer entry and numerical data sorting.

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