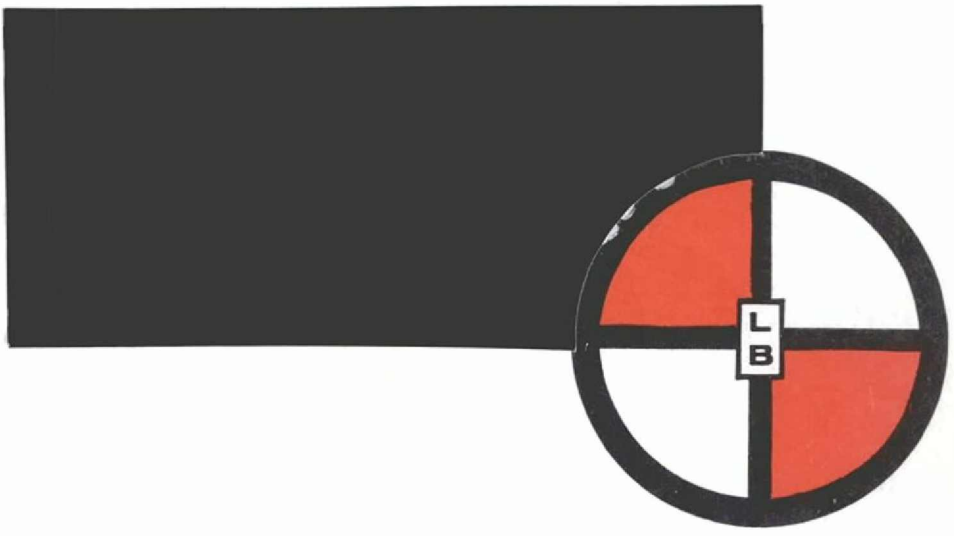

LOUIS BERGER & ASSOCIATES, INC.

100 Halsted Street
East Orange, New Jersey 07019

STATUS REPORT AND PROPOSAL FOR COMPLETION OF ARCHAEOLOGICAL AND HISTORICAL INVESTIGATIONS AT THE ASSAY OFFICE SITE, BLOCK 35, NEW YORK, NEW YORK

83-229M

BUDGET

PREPARED FOR:

HRO, International LTD
Tower 56, 126 East 56 Street
New York, New York

PREPARED BY:

The Cultural Resource Group
Louis Berger & Associates, Inc.

April, 1986

LABOR

Project Management				
Project Manager	240	hrs @	$29.00	$6,960
Principal Investigator (CHL)	160	hrs @	$15.25	$2,440
Principal Investigator (AEF)	80	hrs @	$15.90	$1,272
SUBTOTAL–Project Management				$10,672
Historical Research--Data Collection				
Principal Investigator (AEF)	400	hrs @	$15.90	$6,360
Assistant Historian	800	hrs @	$8.00	$6,400
Historical Research--Analysis				
Principal Investigator (AEF)	200	hrs @	$15.90	$3,180
Assistant Historian	400	hrs @	$8.00	$3,200
SUBTOTAL–Historical Research				$19,140
Laboratory Analysis				
Principal Investigator (CHL)	400	hrs @	$15.25	$6,100
Laboratory Director	144	hrs @	$12.62	$1,817
Laboratory Analysts	4,230	hrs @	$10.00	$42,300
Laboratory Technicians	4,600	hrs @	$7.00	$32,200
Conservation Technician	120	hrs @	$10.00	$1,200
SUBTOTAL–Laboratory Analysis				$83,617
Data Entry				
Principal Investigator (CHL)	40	hrs @	$15.25	$610
Keyboard Operator	200	hrs @	$9.00	$1,800
SUBTOTAL–Data Entry				$2,410
Archaeological Data Analysis and Interpretation				
Principal Investigator (CHL)	240	hrs @	$15.25	$3,660
Research Analyst	200	hrs @	$8.00	$1,600
SUBTOTAL–Data Analysis & Interpretation				$5,260

LABOR--continued

Report Preparation

Principal Investigator (CHL)	800	hrs @	$15.25	$12,200
Principal Investigator (AEF)	480	hrs @	$15.90	$7,632
Laboratory Analysts	120	hrs @	$10.00	$1,200
Technical Editor	200	hrs @	$10.35	$2,070
Draftsperson/Illustrator	240	hrs @	$8.75	$2,100
Photographer	160	hrs @	$10.25	$1,640
Word Processing Operators	200	hrs @	$6.00	$1,200
SUBTOTAL-Report Preparation				$28,042
TOTAL LABOR				$149,141
LABOR OVERHEAD (120%)				$178,970

DIRECT EXPENSES

Consultants and Subcontractors

Floral/Faunal Analyst	235	days @	$125.00	$29,375
D. Rockman Wall	12	days @	$200.00	$2,400
Colonial Armament Spec.	2	days @	$200.00	$400
Wharf Specialist	5	days @	$200.00	$1,000
Naval Architecture Spec.	2	days @	$200.00	$400
Conservation Consultant	5	days @	$200.00	$1,000
SUBTOTAL--Consultants & Subcontractors				$34,575

Travel Expenses

Travel-DC/EO	50	trips @	$250.00	$12,500
Travel-EO-NYC	100	trips @	$15.00	$1,500
Travel--EO/Albany	1	trips @	$200.00	$200
Miscellaneous Local Travel				$500
SUBTOTAL--Travel				$14,700

DIRECT EXPENSES–continued

Miscellaneous Expenses

Computer Lease	16	mo@	$350.00	$5,600
On-Line Data Searches				$750
Document Reproduction				$300
Laboratory Supplies				$500
Photographic Supplies				$100
Conservation Supplies				$500
SUBTOTAL–Miscellaneous Expenses				$7,750

Report Production Expenses

Printing : Draft (5 copies)				
copying (1000 pp/copy) x 5cc	5,000	pgs@	$0.10	$500
binding (5 cc)	5	cc@	$6.00	$30
cover printing				$20
Printing: Final (25 copies)				
copying (1000 pp/copy) x 25 cc	25,000	pgs@	$0.10	$2,500
binding (25 cc)	25	cc@	$6.00	$150
screening plates (50)	50	@	$18.00	$900
cover printing				$20
Printing: non-technical report				
copying (10 pp/copy) x 20 cc	200	pgs@	$0.08	$16
binding (20 cc)	20	cc@	$5.00	$100
screening plates (5)	5	@	$18.00	$90
cover printing				$20
SUBTOTAL–Report Production Expenses				$4,346
SUBTOTAL–Direct Expenses				$61,371
SUBTOTAL (Labor + Overhead + Expenses)				$389,482
FEE (10%)				$38,948
PROJECT TOTAL				$428,430

Formalize Lab Analysis Procedures.

Development of a full set of codes for data entry, dictionaries, and preparation of computer program to accept input.

Assumptions: utilize commercially available software and revise coding system used on Barclay's Bank.

Estimate:	Principal Investigator	80
	Analysts	120

Complete Flotation Processing

Water separation, drying, and packaging of unprocessed soil samples.

Assumptions: about 25 samples remain unprocessed, and they can be done at the rate of about 2 per hour. add time for prep and drying and packing.

Estimate:	Tech	32

Munsell and Discard Residual Soil Samples

Make munsell soil color readings of (wet) soil samples, then discard

Assumptions: less than 100 samples need to be done

Estimate:	Tech	10

Prepare Initial Index of Boxes by Context Number

Assign a number to each box in the lab, and list the context numbers included. Enter the information to a data management microcomputer program. This will allow organized retrieval of all artifacts from particular features and lots for orderly analysis.

Assumptions: There are 565 boxes and other containers that include Assay Site artifacts.

Estimate:	Tech	80

Rough-Sorting of Artifacts from Landfill, Stray Finds, Late Nineteenth Century and Disturbed Contexts

This will involve counting and tallying artifacts from the contexts which will not be

subject to detailed analysis. The materials have already been sorted into seven classes by GCI, but we are adding an eighth; since they put shell and macro-floral in the same class, we are going to separate these out. So the bags that contain both flora and shell will have to be sorted. Counts for the eight categories will be recorded on coding sheets, and the shell will be weighed as well. After tabulation, the material will be reboxed according to artifact class, not by context as they are now, and box labels will be prepared listing the contents and contexts in each box.

Assumptions: there an estimated 310,000 artifacts in this group, representing some 500 separate contexts and some 950 bags brought into the GCI lab; it is also assumed that all of these contexts are among the 90% of the collection already sorted by GCI; counting can be accomplished at the rapid rate of 1,000 per hour, since they are already sorted, except for the shell; this group presently accounts for approximately 300 boxes in the lab; an additional time of 20 minutes per box is estimated, to allow for separating the shell, preparing a card for it, marking the bag, weighing it, completing the data coding forms, retrieval of the boxes from the shelves, packaging the tabulated bags in new boxes, and adding the context number to the destination box label.

Estimate: Tech 410

Labeling

Diagnostic artifacts will be labelled that are from contexts that will be used to address the research questions, those that are of display or illustration quality, and those that will be used in cross-mend analyses. This specifically excludes the pipe stems with no maker's marks, bottle body sherds, non-diagnostics (architectural debris), flora, fauna, and shell. It categorically includes ceramics and bottle bases. The number consists of the site number 1284 and the context number, expressed as a fraction, i.e, 1284/345.

Assumptions: there are 27,313 ceramic sherds in this group; 53,282 curved glass sherds, of which perhaps 5% (2,664) will be labeled; 8,133 pipes, of which 10% (813) will be labeled; and 5,885 other diagnostics, of which 25% (1,464) will be labeled; a grand total of 32,177 artifacts to be labeled. Labeling can be accomplished at the rate of 50 artifacts per hour.

Estimate: Tech: 644

Rough Dating Landfill and Other Analytically Useless Deposits

After rough-sort tabulation of the landfill, disturbed, stray finds, and other contexts not applicable to the research questions, a 10% sample of the contexts will be selected to

ascertain the general date range in these contexts. The ceramics from the selected contexts will be tabulated according to ware groups to provide an assessment of the date range of materials represented in the contexts not subject to detailed tabulation and analysis.

Assumptions: These contexts include an estimated 310,000 artifacts, and in this total, there are 62,731 ceramic sherds. There are approximately 500 contexts in this group. A 10% sample will require tabulation of approximately 6,273 sherds. It is estimated that these can be sorted into major ware groups, and tabulated at the rate of 50 sherds per hour. No labeling, cross-mending or vessel form determinations will be made for this group, and the sherds will simply be returned to their bags when the tabulation is complete for each context. Time allowance for retrieval and return of the selected contexts from the storage boxes is estimated at 15 minutes per context.

Estimate:		
	Analyst	120
	Tech	120

Ceramic Tabulation

This involves ceramic tabulation at the sherd level, using coding forms for ware, type, decoration, etc.

Assumptions: There are an estimated 26,517 ceramic sherds in the contexts that will used for the research design. It is Assumed that tabulation will be accomplished as fast as the Barclay's project, which was 13.7/hour.

Estimate:		
	Analyst:	1,936

Ceramic Cross-mending and MNVs

This is the identification of vessel forms from sherds, and crossmending within lots.

Assumptions: There are an estimated 27,313 ceramic sherds in the contexts that will be used for the research design. Cross-mending time varies widely with the number of features and units that are included within the possible universe of cross-mends. It is assumed that the overall rate will be equal to what was accomplished on the Barclays Lot 144C, which included 13 units. The sherd population for this lot was 8,295 and the time expended was 264 analyst hours and 216 tech hours (a total of 8 person weeks). This yields a rate of 17 sherds/hour.

Estimate:		
	Analyst	884
	Tech	724

Glass Tabulation, Cross-mending and MNVs

This is the tabulation of curved glass, determination of vessel forms, and MNV counts, from mending bases or other criteria.

Assumptions: There are an estimated total 53,282 curved glass sherds in the contexts that will be used to address the research design. It is assumed that tabulation will be accomplished at the same rate as was for the Barclays collection, an average of 39.5/hour.

Estimate:		
	Analyst	675
	Tech	675

Pipe Analysis

Among the contexts that will be used to address the research design, there are an estimated total of 7295 pipes, of which it is estimated that 80% are from the Lot 9 merchant's floor deposit. Pipes will coded according to decorative elements that may provide information on time and place of manufacture, as well as evidence of wear. It is estimated that 10% will have an attribute that can be coded, and the rest will be undecorated fragments. Pipe stem bore diameters will not be measured. It is estimated that the coding of diagnostic elements can be accomplished at the rate of 10 per hour, and the remainder can be tabulated at the rate of 100 per hour. A few extra hours will be allowed for retrieval and return to boxes.

Estimate:		
	Analyst	72
	Tech	160

Analysis of Other Diagnostics and Non-Diagnostics

This includes tabulation of "small finds", etc., as well as sorting of shell by species and weighing it.

Assumptions: The yard and feature contexts include a total of 37,800 items in the Other Diagnostics and Non-Diagnostics classes; it is assumed that these items can be tabulated at the same rate as the Barclay's "small finds" which was 28.0/hour. In the Faunal Category, counts will be done only for those contexts not sent to the specialist, and it is estimated that these contexts will account for 2,477 of the total 48,193 estimated bones. Also, for all contexts used in the research design, the GCI Macro-Floral category will have to be sorted into Shell and Floral classes. There are an estimated 72,228 items in the GCI Macro-Floral class, representing 506 contexts.

As with the Faunal class, Flora counts will be necessary only for those contexts not sent to the specialist for analysis; this component is believed to account for only 1,319 of the total estimated items (72,268) in this class. It is estimated that tabulating the non-analyzed bone and seed, and sorting, counting and weighing the shell, can be done at a rate of 100 items per hour.

Estimate:	Analyst	700
	Tech	700

Conservation

This is the contined stabilization and treatment of specimens now in the tanks, plus additional items that may require treatment

Assumptions: Review of GCI lab records indicates that most items selected by them for conservation have already been treated. There two tanks with chemicals and pieces of wood, leather, etc. that are currently in treatment, and it is simply a matter of letting these things "cook" until they are complete. There will be some artifacts found during analysis that will require conservation, for example, pieces of the pilings, etc. It is assumed that these items will be relatively few, since the GCI people have already conserved about 300-350 artifacts. It is assumed that any items found during LBA's analysis will require relatively little in the way of cleaning before they are treated.

Estimate:	Analyst	120

Prepare Index of Box Contents After Completion of Analysis

This will involve numbering the "destination boxes" (boxed where the artifacts are placed after analysis), and listing the contexts and contents of each box. Information will be input into a data management program, and printed for future collections management.

Assumptions: There will be approximately the same number of boxes as the collection now occupies, about 500-600.

Estimate:	Tech	40

Prepare Type Collections

This will involve pulling diagnostic items from the contexts that have virtually no analytical value, i.e, stray finds, material from shovel and backhoe clearing, etc. These items will have to be labeled, and some sort of listing of contents will have to be

devised.

Assumptions: About 5 type collections will be prepared and they can be done for an average of I week per.

Estimate:	Analyst	100
	Tech	100

Data Entry to Computer

This will involve keyboard entry of lab data to the software of choice.

Assumptions: There will be no more than 50 digits in each record. It is known that there are approximately 1,224 excavation contexts that contained artifacts, and it is estmated that there are about 560,000 artifacts in the collection, an estimated average of 450 artifacts per context. The portions of the collection that will not be used for the research design (about 718 contexts) will be input simply in eight rough-sort categories, so there will be a maximum of about 5,700 individual computer records for these contexts, but 4,000 is a reasonable estimate, since many contexts will not have artifacts in all 8 categories. It is estimated that these records can be entered rather quickly, since no modifiers will be attached to the counts. These records might be entered at the rate of 100 per hour, or a total of hours.

The contexts that will be used for the research design are much more difficult to predict. There are about 500 contexts in this group. The major work will involve entry of the curved glass, ceramics, pipes, other diagnostics and non-diagnostics, which account for an estimated 122,984 artifacts. Not every artifact will get an individual record, but the exact number that do will depend on the level of splitting incorporated into the coding. It is estimated that this group will involve 15,000 individual records, which as a group will have an average field length of 25 characters. This translates to 375,000 keystrokes for data entry. It is estimated then that data entry will be accomplished at the average rate of 50 keystrokes per minute, equivalent to a typist going at 10 WPM. The time required for entry of the good artifacts then becomes about 3 weeks. A few days will also be needed to train the keyboard person.

Estimate:	Data Entry	200

Miscellaneous Research

Some time will be allowed for research of peculiar maker's marks, etc., as well as time for the analysts to prepare written summaries of the lab procedures.

It is assumed that some research will have to be done for the glass, ceramics and pipes. Analysts will be asked to write up lab procedures as well as some descriptive text dealing with special aspects of the collection, for example the cache of pipes in the Lot 9 merchant's floor.

Estimate:	Analyst	200

Laboratory Supervision

Supervision of work, establishing procedures, monitoring progress, etc.

Assumptions: The lab work will occur over a period of 9 months, with an average of 6 people full-time on the job. The Lab Director is budgeted to spend one-half day per week on direct lab supervision for the duration. The PI is budgeted to spend, on the average, a full day per week on lab supervision.

Estimate:	Principal Investigator	288
	Lab Director	144

Floral and Faunal Analysis

Bone, macro-floral and flotation samples will be sent to Cheryl Holt for analysis.

Assumptions: Of the 125 flotation samples, approximately 87 are from contexts (features and yard deposits) that we will want to look at. Cheryl can extract the material at a rate of about 7 samples per day. She has also provided estimates for identification the bone, based on an average rate of 200 pieces per day. The macro-floral material is estimated to take about 30 days, based on the total estimate of macro-floral specimens. Her total estimate for the bone and macro-floral is 204 days. Add 4 weeks (20 days) for report writeup and synthesis.

Estimate:	C. Holt	235 d

Summary

Total of the tasks enumerated above.

Principal Investigator	368
Lab Director	144
Analyst	4927
Technician	3695

An additional 5% (200 hours) should be added to the Technician time to cover items that not specifically discussed above, because they are too small and numerous. This primarily include handing the collection, which now occupies more than 500 boxes and several dozen bags, but also xeroxing forms, preparing daily and weekly tallies of work accomplished, checking forms for completeness, etc.

It is also suggested that some of the tasks performed by personnel at the Analyst level may be performed by personnel at the Technician level, under supervision. Therefore, a total of 700 hours is removed from the Analyst total and placed in the Technician total.

New estimated totals (rounded):

Analyst	4,230
Technician	4,600