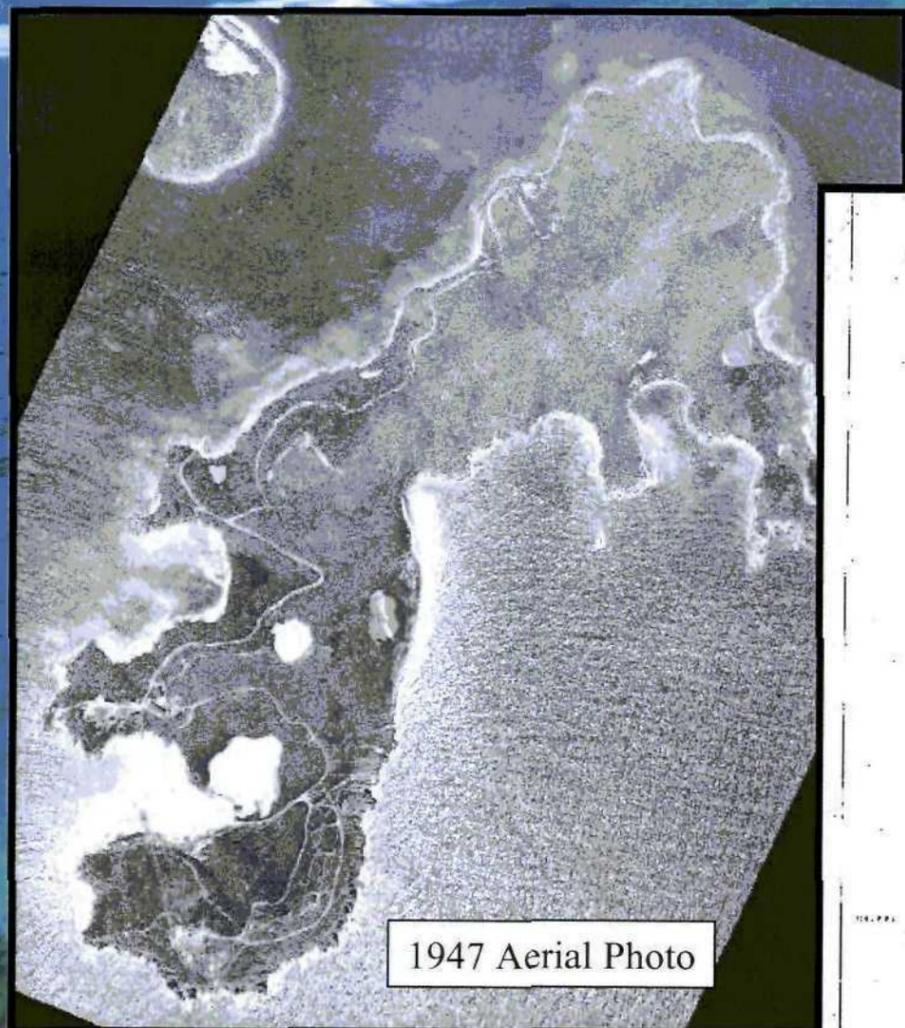


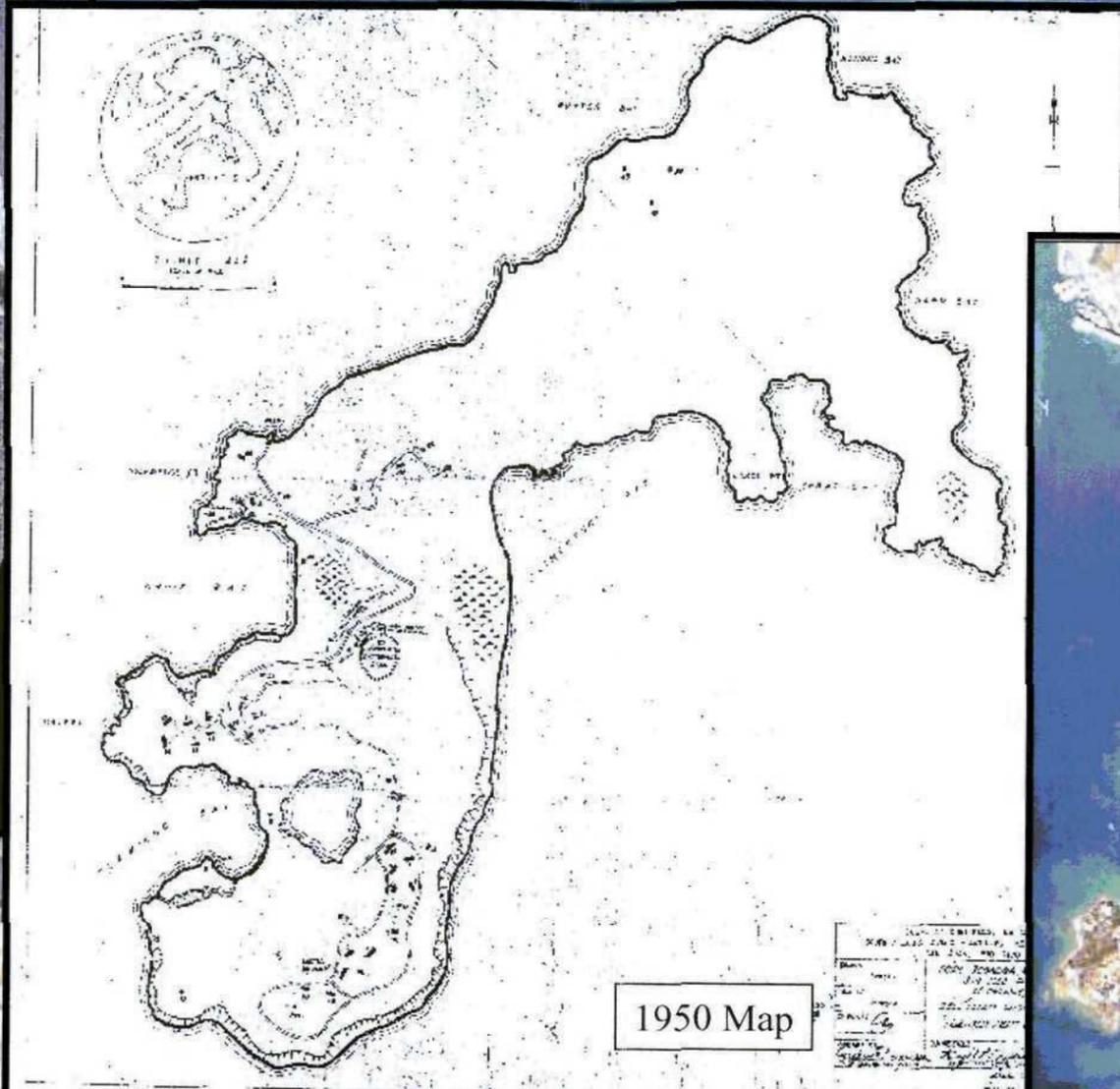
St. Thomas, US Virgin Islands

WATER ISLAND

HISTORICAL PHOTO ANALYSIS



1947 Aerial Photo



1950 Map



1999 Aerial Photo

US Army Corps of Engineers,
Engineer Research and Development Center
Topographic Engineering Center
September 2001.

200.1e
I02VI097701 01.09 0003



NOTICE: The views, opinions, and conclusions contained in this report are those of the author and should not be construed as official Department Of Army positions or policy unless so designated by other documentation.

TABLE OF CONTENTS

INTRODUCTION	PAGE 4
LOCATION MAPS	PAGE 5-7
TABLE 1 Aerial Photo Collection	PAGE 8
TABLE 2 Digital Orthophoto Products	PAGE 9
TEST AREAS (GRAPHIC)	PAGE 10
AERIAL PHOTO ANALYSIS	PAGES 11-37
“3-D” AERIAL PHOTOS	PAGES 38-43
APPENDIX A (National Archives documents)	PAGES 44-51
APPENDIX B (National Archives ground photos and map data.)	PAGES 52-58
APPENDIX C (Photos by William Wapp, circa 1950)	PAGES 59-68
APPENDIX D (Historical Maps and documents, National Park Service)	PAGES 69-72
ADDITIONAL SOURCES	PAGE 73

INTRODUCTION

The Jacksonville District Corps of Engineers requested that the U.S. Army Corps of Engineers, Engineer Research and Development Center, Topographic Engineering Center (TEC) support the collection and analysis of historical aerial photos of the former Ft. Segarra site (San Jose Project) on Water Island, U.S. Virgin Islands for the period of 1948 through 1950. **Based on a meeting of November 16, 2000, the focus of the analysis was to cover the Flamingo Bay Landfill area, Test Area 4 and Test Area 5.** However, additional data are presented which covers the entire island.

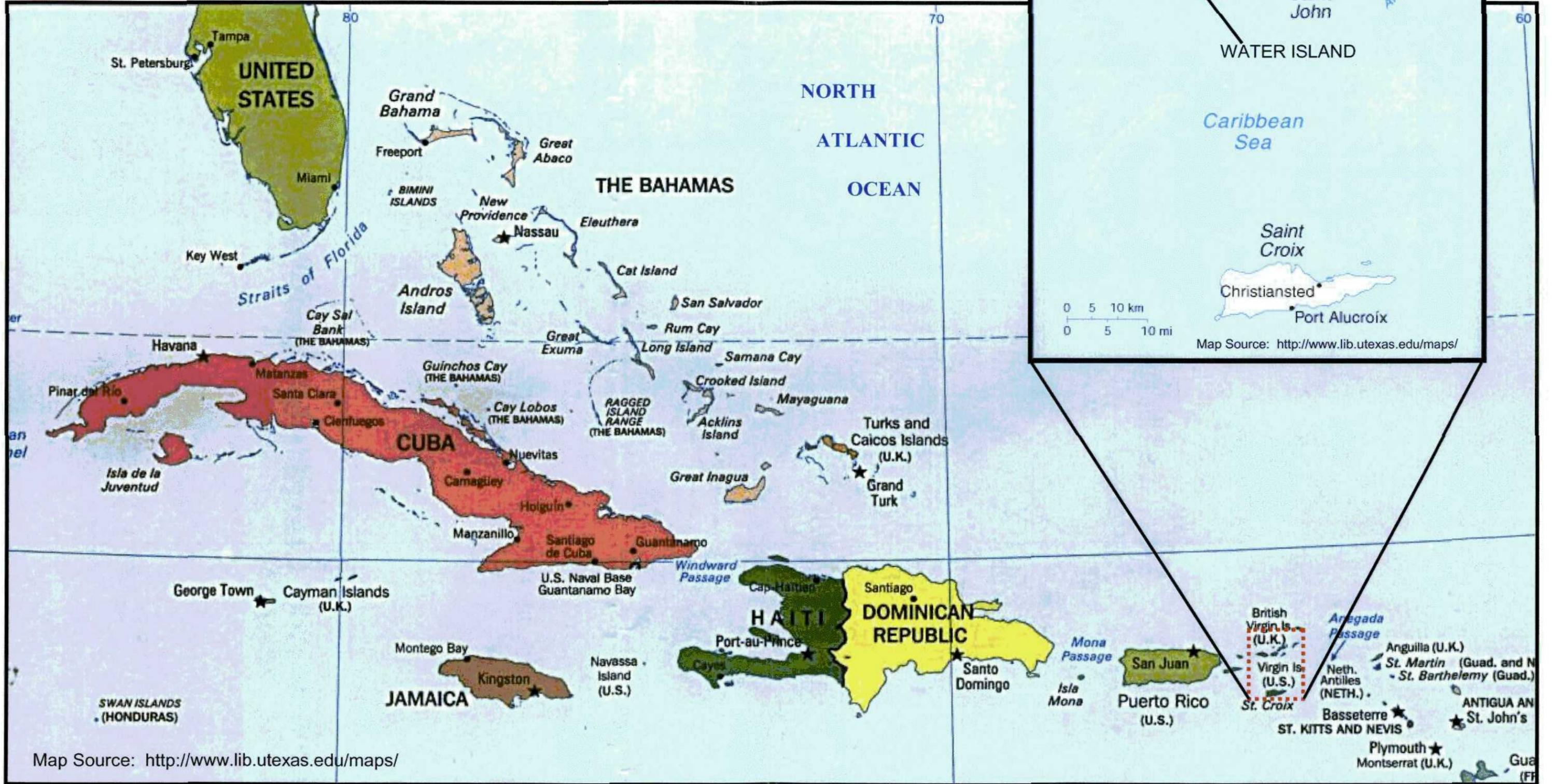
The TEC analysis objective was to identify potential areas of concern (such as ground scars). Such features may be related to the testing of chemical weapons material, but due to the absence of aerial coverage during the time frame of the San Jose Project, such features could be related to other non-military activities. Features identified from aerial photography were identified as ground scars, cleared areas or noted by more definitive terms if known, such as gun emplacements. Supplemental data, such as documents and ground photos have been incorporated into this analysis.

This report presents the results of that collection and analysis. The study was compiled by the U.S. Army Topographic Engineering Center's Operations Division, Hydrologic and Environmental Analysis Branch (CEERD-TO-H) located in Alexandria, Virginia.

The analysis in this report is primarily based upon interpretation of black and white and color aerial photography over the project area spanning 1945 to 1999. Stereo viewing was employed where overlapping photographs permitted its use. A list of aerial photography collected by TEC appears in Table 1. Table 2 is a list of the digital orthophotos that were produced. The orthophotos were incorporated into the geographic information system (GIS) product created by TEC in December 2000.

Data were collected from the Huntsville Engineering and Support Center, Corps of Engineers, Jacksonville District, Corps of Engineers, the National Archives and Records Administration (NARA), College Park, Maryland, the Northeast Regional Archives, NARA, New York, New York, the Department of Planning and Natural Resources, US Virgin Islands, the National Oceanographic and Atmospheric Administration (NOAA) Research Center, Boulder, Colorado, the Southeast Archeological Center, National Park Service, Tallahassee, Florida, the US Department of Agriculture, Salt Lake City, Utah, the NOAA National Geodetic Information Center, Silver Spring, Maryland, the EROS Data Center, Sioux Falls, South Dakota, and Aerial Viewpoint, Spring, Texas.

LOCATION MAP—ST. THOMAS, US VIRGIN ISLANDS



Map Source: <http://www.lib.utexas.edu/maps/>

LOCATION MAP—WATER ISLAND

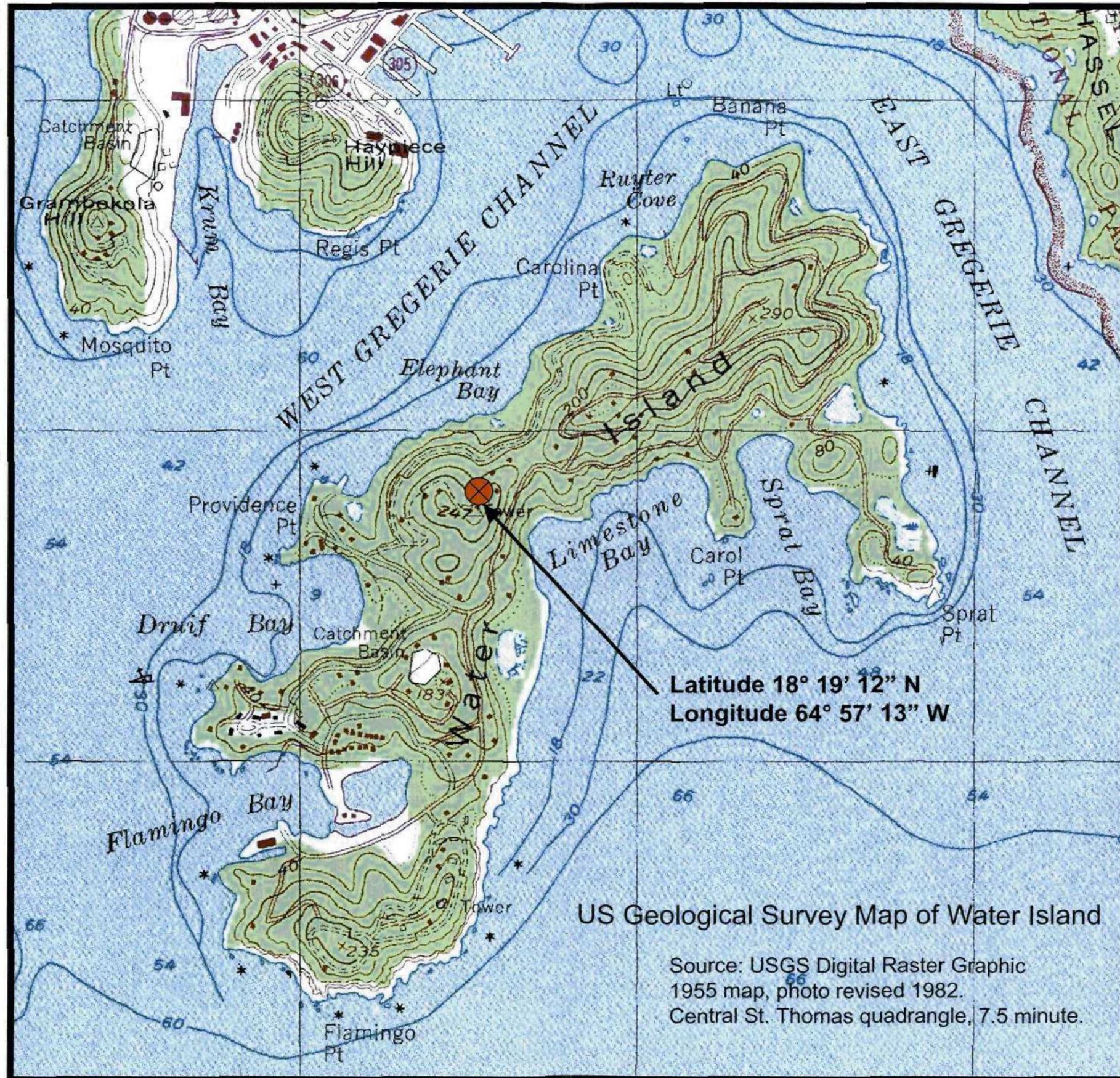


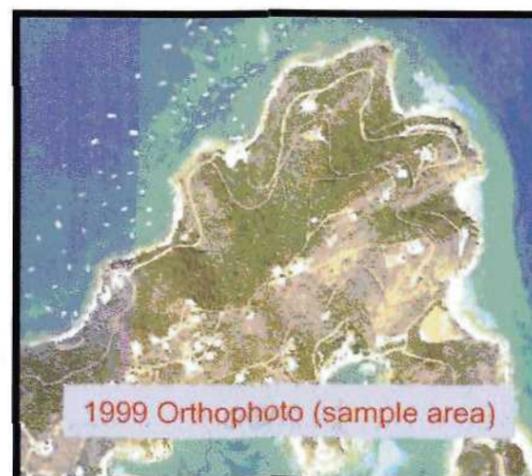
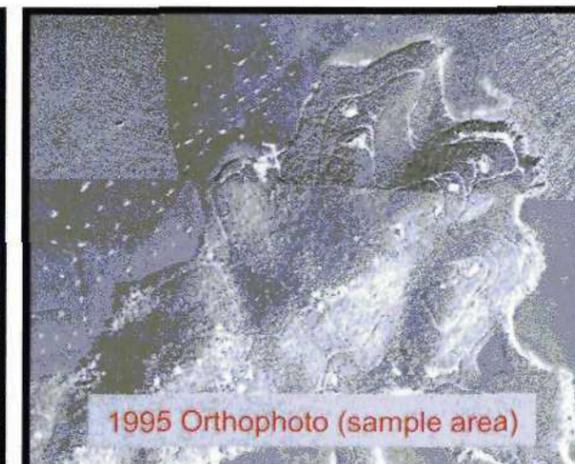
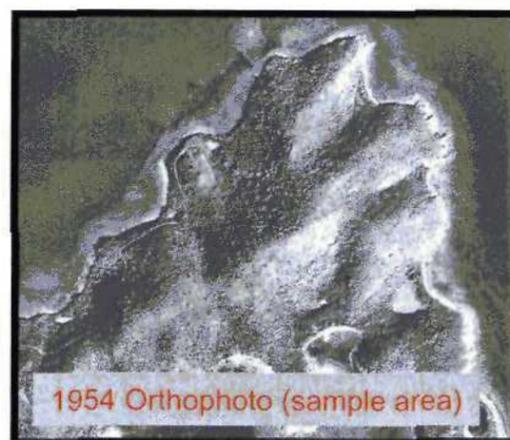


TABLE 1: AERIAL PHOTO COLLECTION

AERIAL PHOTO DATE	FILM TYPE	SCALE	MISSION/FRAME NUMBERS	SOURCE
April 8, 1945	Black and White	1:30,000	GTF-PL,5M 20P8: S-6b	National Archives and Record Administration, College Park, Maryland, Record Group 373.
February 11, 1945	Black and White	1:10,000	GTF-PL,5M 68P-4: S-6	National Archives and Record Administration, College Park, Maryland, Record Group 373.
September 1947	Black and White	1:24,000	VIR-177,178	National Oceanographic and Atmospheric Administration (NOAA) Research Center, Boulder, Colorado. Data was on loan to NOAA from the USVI Dept. of Planning and Natural Resources
January 29, 1954	Black and White	1:30,000	GS YM 1-160, 1-161	EROS Data Center, Sioux Falls, South Dakota
October 28, 1958	Black and White, Infra-red	1:14,000	C&GS 58L7365,7366,7339 & 7340	National Geodetic Information Center, NOAA/NGS, Silver Spring, Maryland
January 26, 1963	Black and White	1:12,000	1237-14-591,590 and 589	Aerial Viewpoint, PO BOX 12289, Spring, TX 77391-2289
February 21, 1964	Black and White	1:24,000	C&GS 64W3445, 3446	National Geodetic Information Center, NOAA/NGS, Silver Spring, Maryland
March 9, 1965	Black and White	1:15,000	C&GS 65L1556,1555	National Geodetic Information Center, NOAA/NGS, Silver Spring, Maryland
February 7, 1971	Black and White	1:20,000	PCFD-64,65	USDA, Aerial Photography Field Office, Salt Lake City, Utah
November 21, 1971	True Color	1:20,000	NOS 71L1209,1210	National Geodetic Information Center, NOAA/NGS, Silver Spring, Maryland
February 5, 1983	Color Infra-red	1:40,000	LN16-RN1 551,552	EROS Data Center, Sioux Falls, South Dakota
September 10, 1991	True Color	1:9,600	Roll 9102 171, 172, 173	USACE, Huntsville Engineering and Support Center, Huntsville, AL
March 1, 1999	True Color	1:48,000	NOS 99ACN04, No. 0634	National Geodetic Information Center, NOAA/NGS, Silver Spring, Maryland

TABLE 2: DIGITAL ORTHOPHOTO PRODUCTS

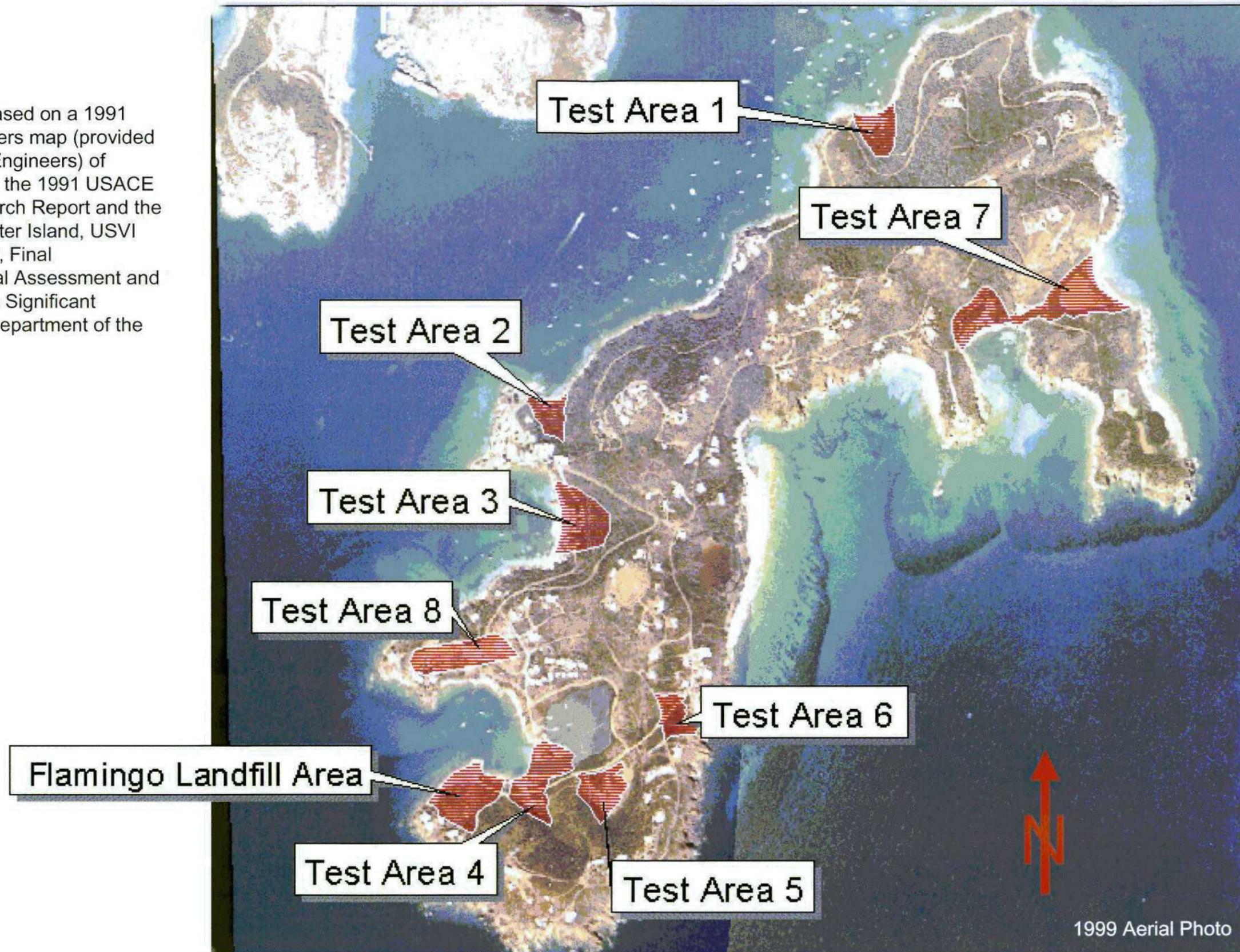
ORTHOPHOTO DATE	FILM TYPE	PRODUCTION SOURCE
January 29, 1954	Black and White	US Army Topographic Engineering Center, Alexandria, Virginia
March 9, 1965	Black and White	US Army Topographic Engineering Center, Alexandria, Virginia
November 21, 1971	True Color	US Army Topographic Engineering Center, Alexandria, Virginia
September 10, 1991	True Color	US Army Topographic Engineering Center, Alexandria, Virginia
1995 (covers only north part of island)	Black and White	Jacksonville District Corps data produced by Woolpert, Mobile, AL.
March 1, 1999	True Color	National Oceanographic and Atmospheric Administration (NOAA) Research Center, Boulder, Colorado.



The digital data is on a CDROM, dated September 2001, by TEC.

1999 AERIAL PHOTO OF WATER ISLAND WITH SAN JOSE PROJECT TEST AREAS AND FLAMINGO LANDFILL AREA

Test areas based on a 1991 Lowe Engineers map (provided by Corps of Engineers) of Water Island, the 1991 USACE Archives Search Report and the May 1996 Water Island, USVI Title Transfer, Final Environmental Assessment and Finding of No Significant Impact, US Department of the Interior.

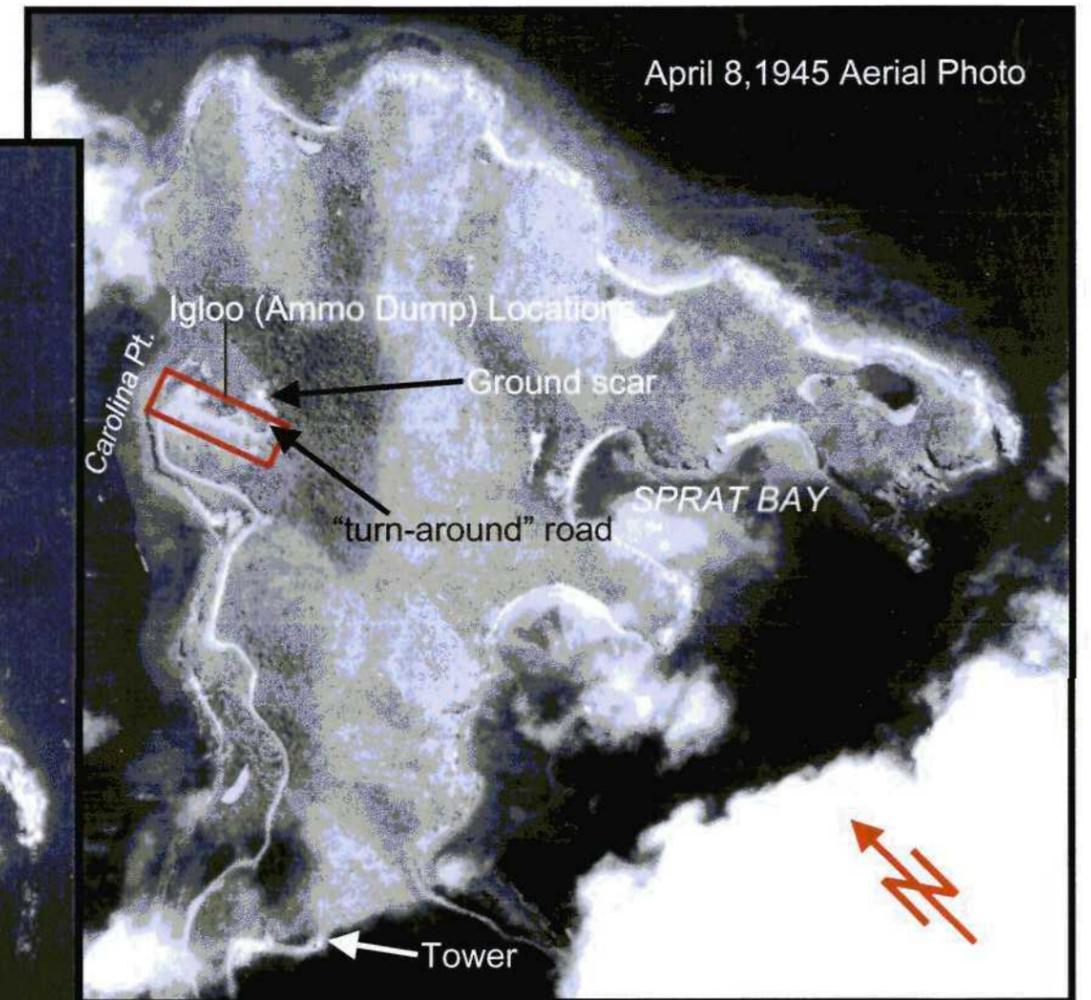
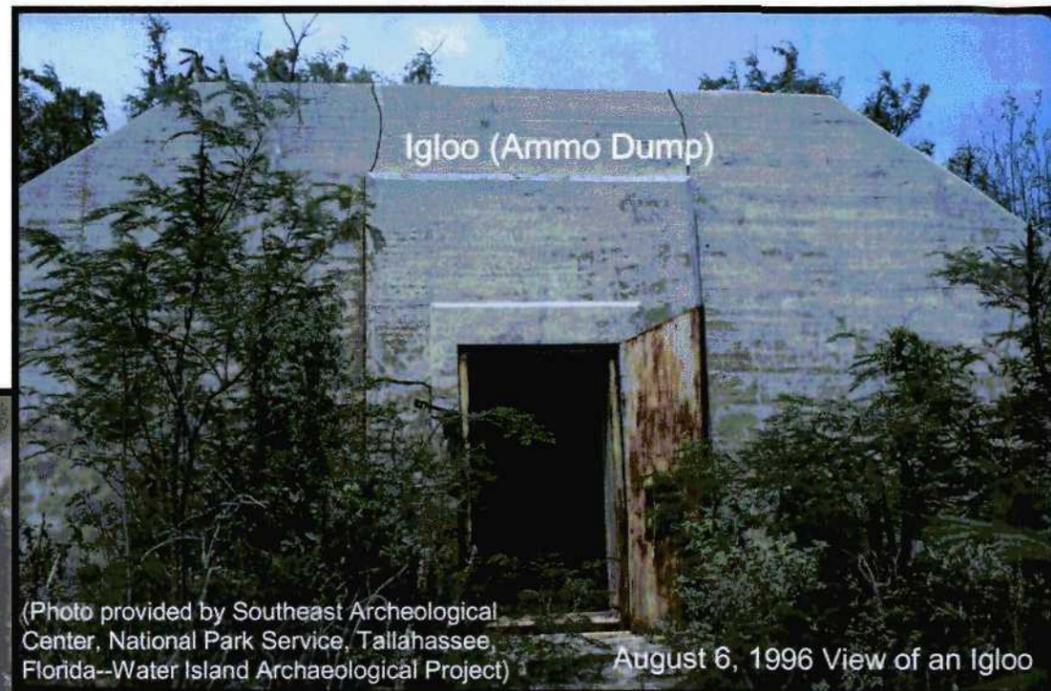


1999 Aerial Photo

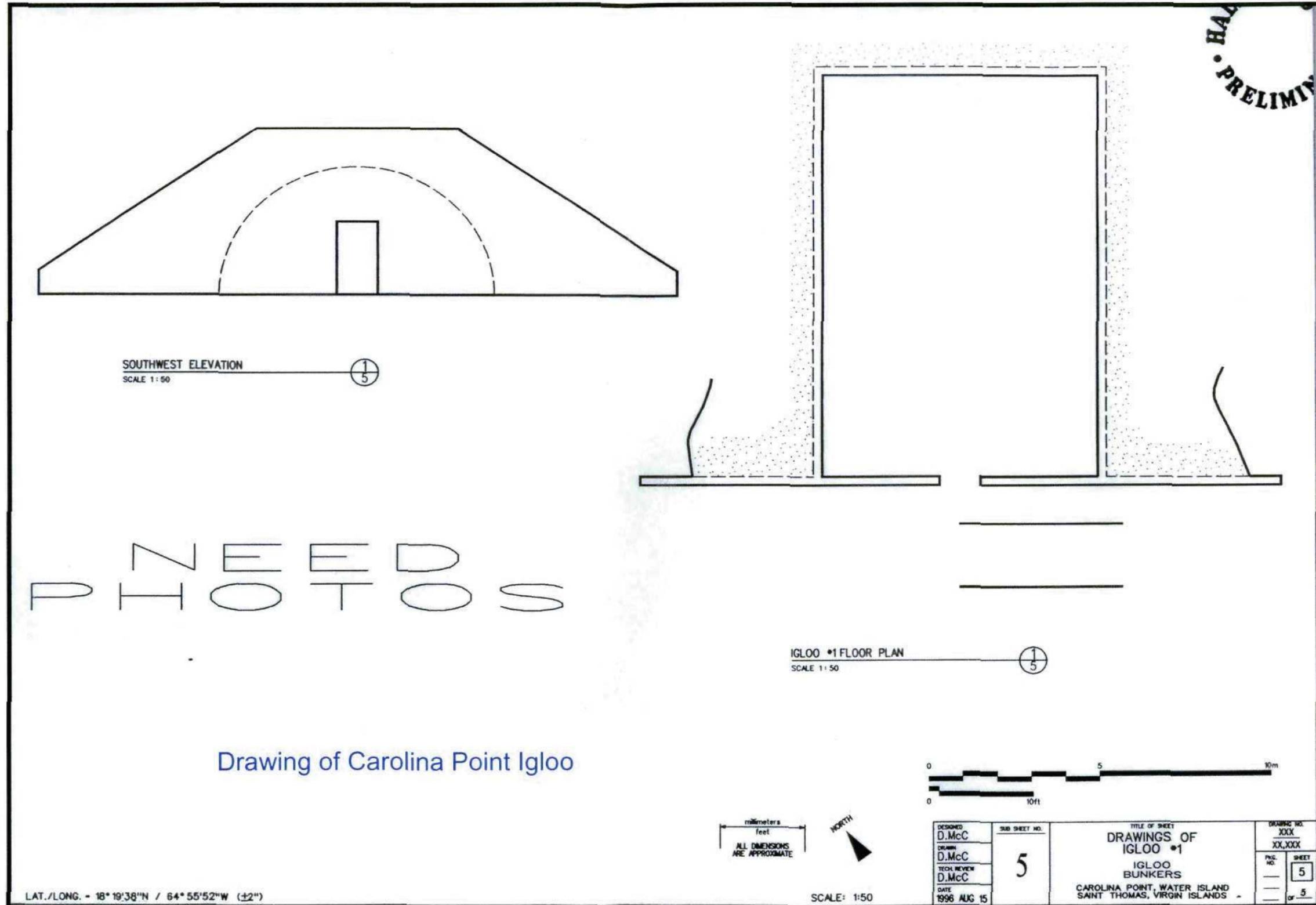
Analysis Glossary

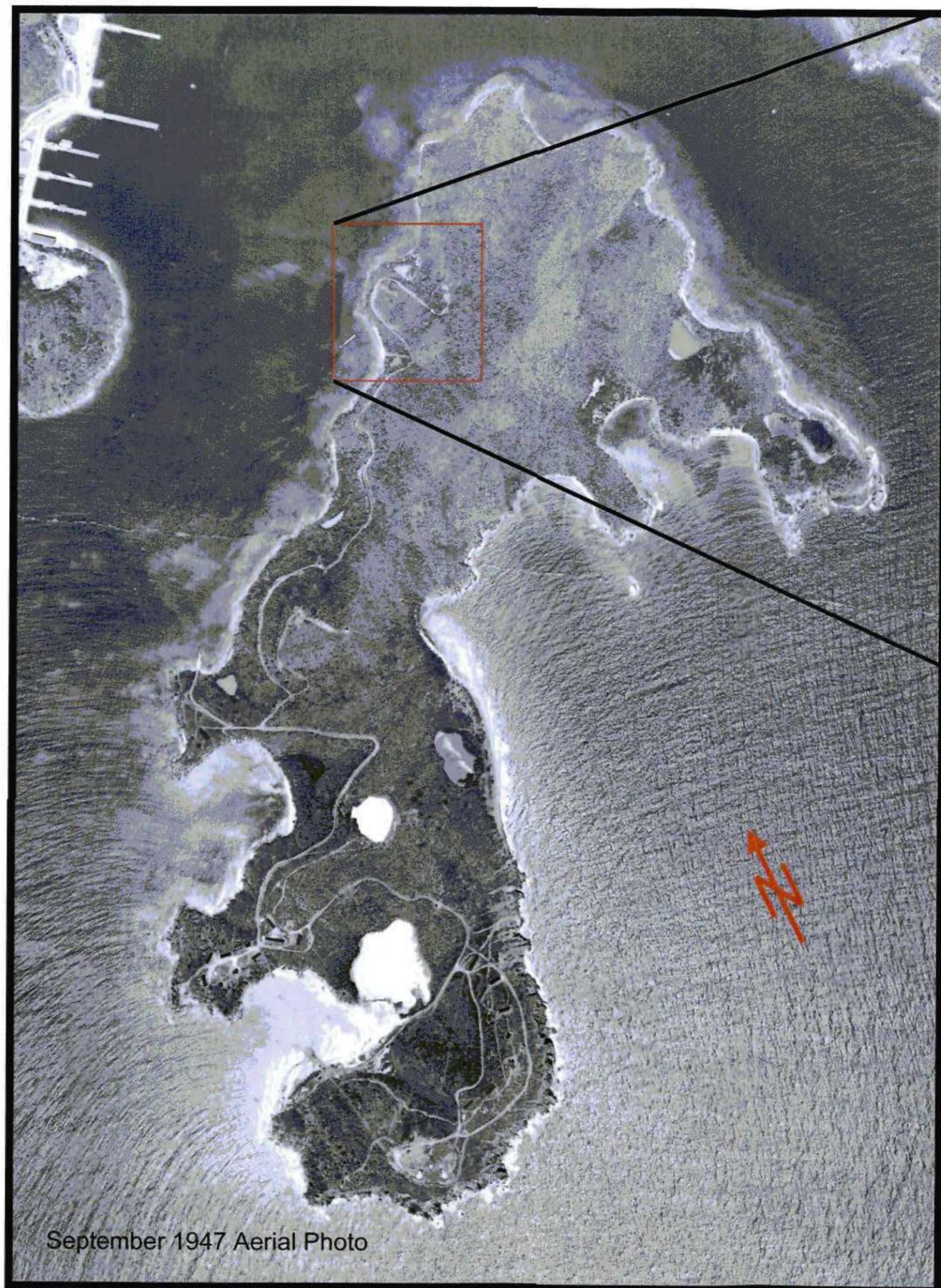
BUILDING	Relatively permanent, usually box-like and roofed structure. A product of construction.
CLEARED AREA	Area from which man has removed trees, shrubs or other natural vegetation cover.
DEPRESSION	Area sunken below its surroundings.
EXCAVATION	Cavity in the earth formed by digging or scooping out materials.
GROUND SCAR	Ground surface, vegetated or not, where marks from a previous activity or feature, or from a subterranean feature, are visible. Ground scars can result from many things and therefore vary greatly in appearance. Examples are covered disposal sites, clearing activity, filled in holes/depressions.
DISTURBED GROUND :	Rough ground surface that has been cleared, overturned, dug up, filled and/or changed from the surrounding area.
MOUNDED MATERIALS	Substance which has been placed in piles in the vicinity of a site.
STRUCTURE:	Buildings or other man-made geometric features, which project above the ground surface.

PARTIAL COVERAGE—1945 AERIAL PHOTOS OF WATER ISLAND
NORTH END OF ISLAND

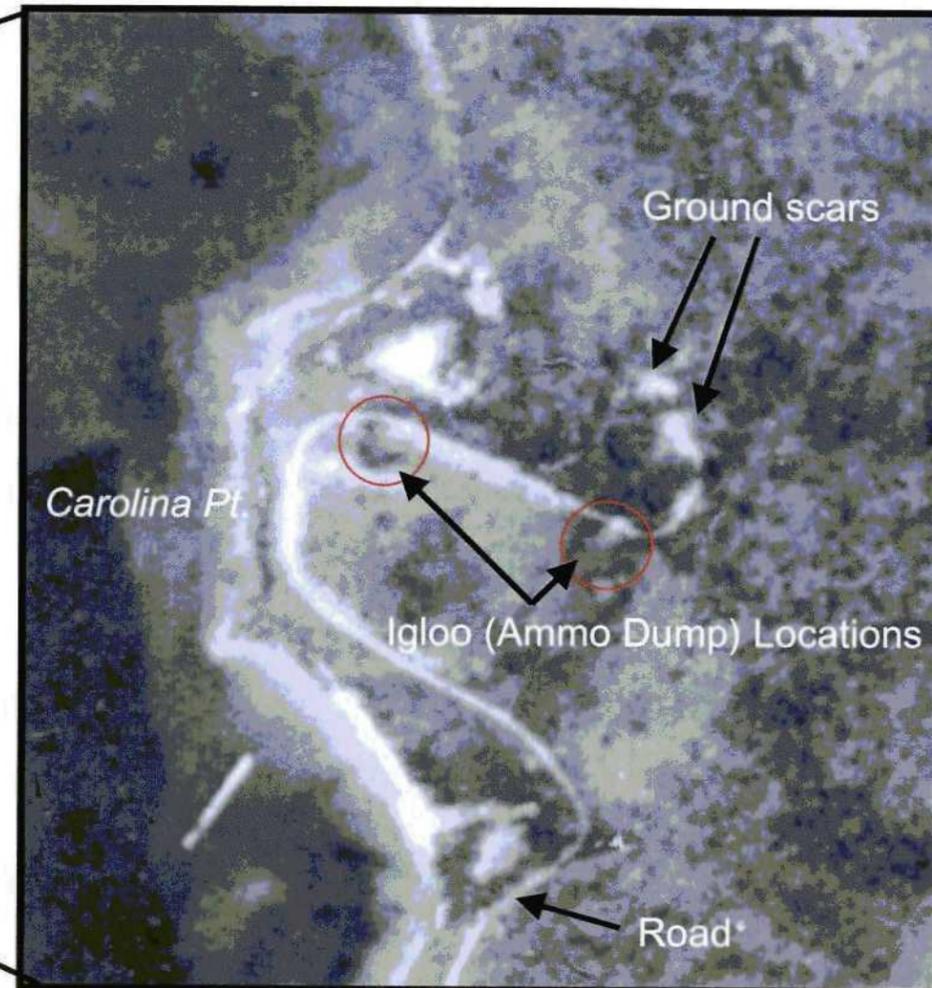


SOURCE: *Water Island Archeological Project*, National Park Service, by Anderson, McCarthy and Yates, 1998. Data provided by Ms. Emily Yates of the Southeast Archeological Center, National Park Service, 2035 E. Paul Dirac Drive, Box 7, Johnson Building, Suite 120, Tallahassee, Florida 32310. December 2000.



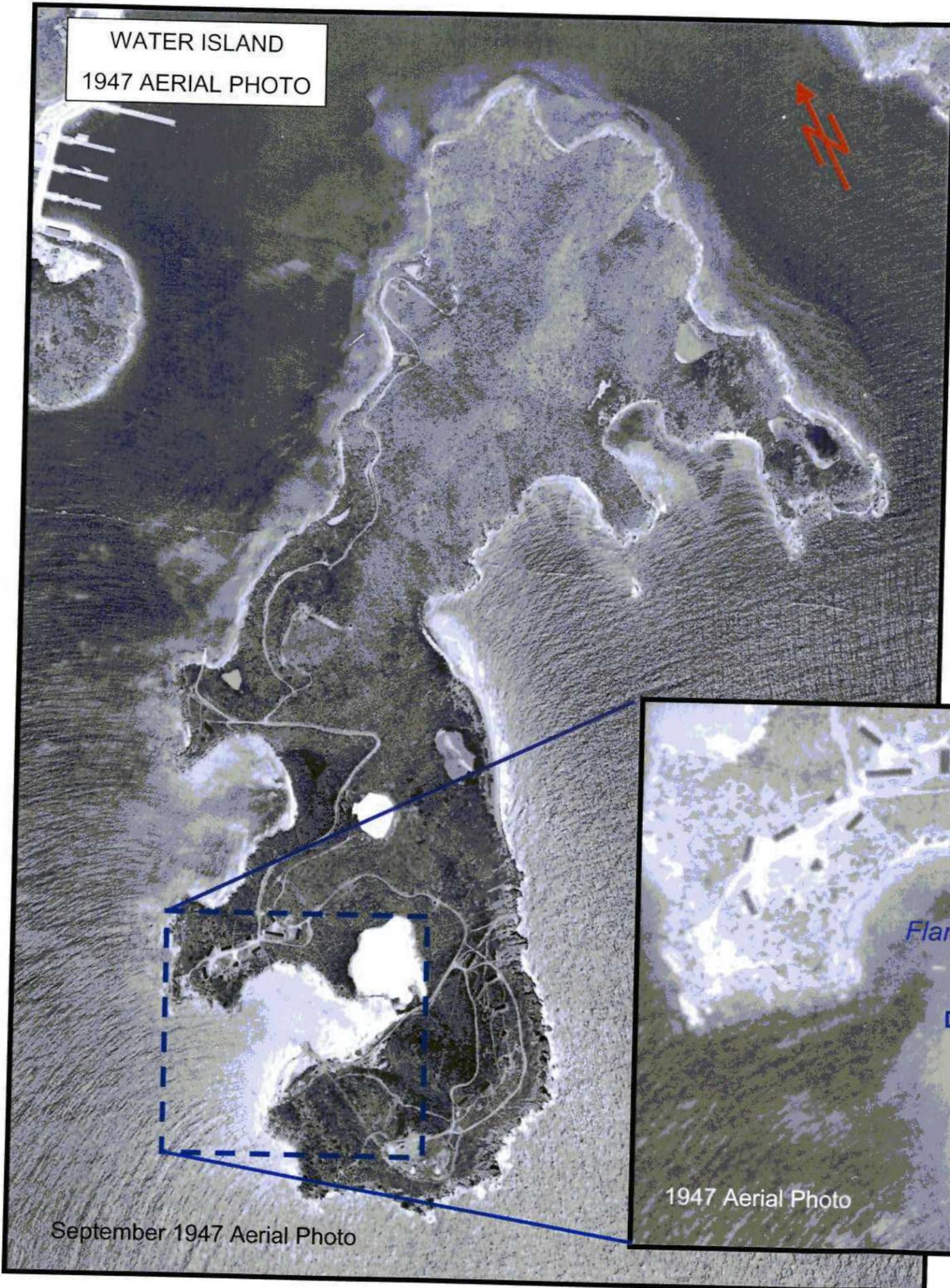


September 1947 Aerial Photo

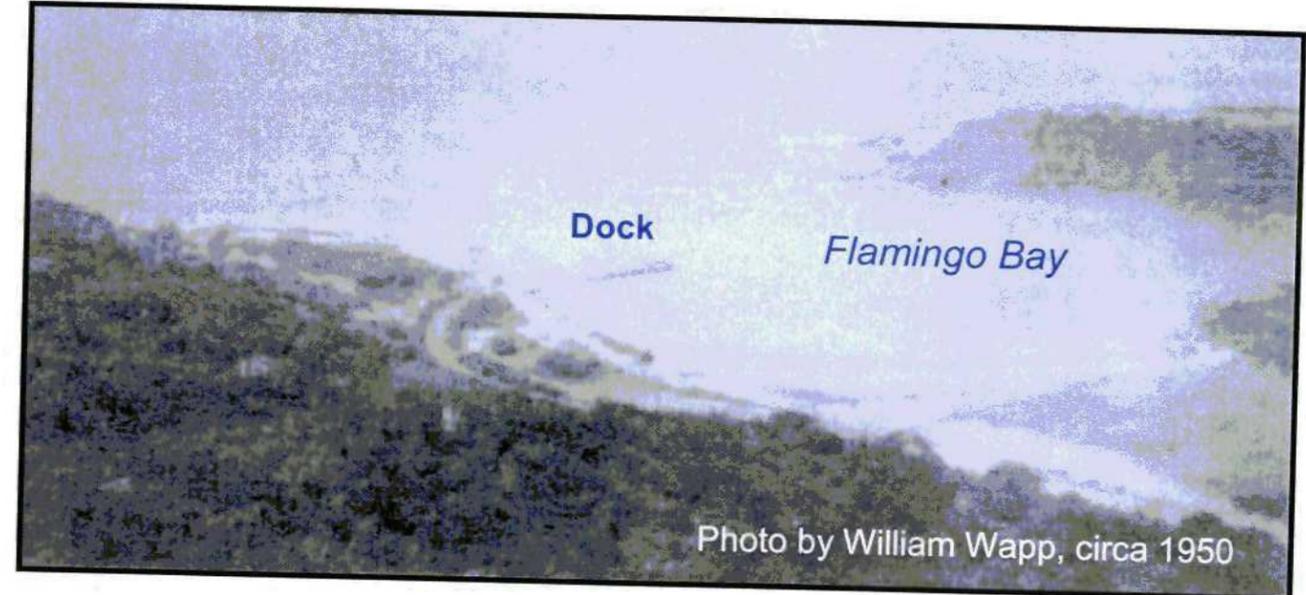


1947 AERIAL PHOTO OF WATER ISLAND

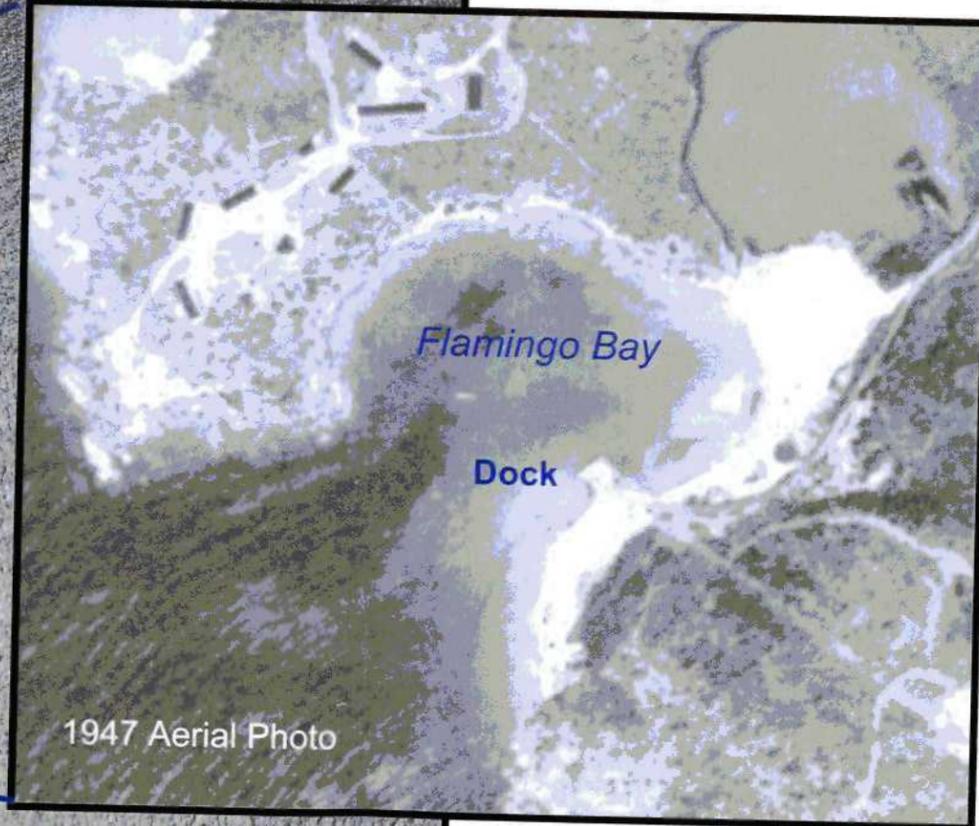
WATER ISLAND
1947 AERIAL PHOTO



September 1947 Aerial Photo

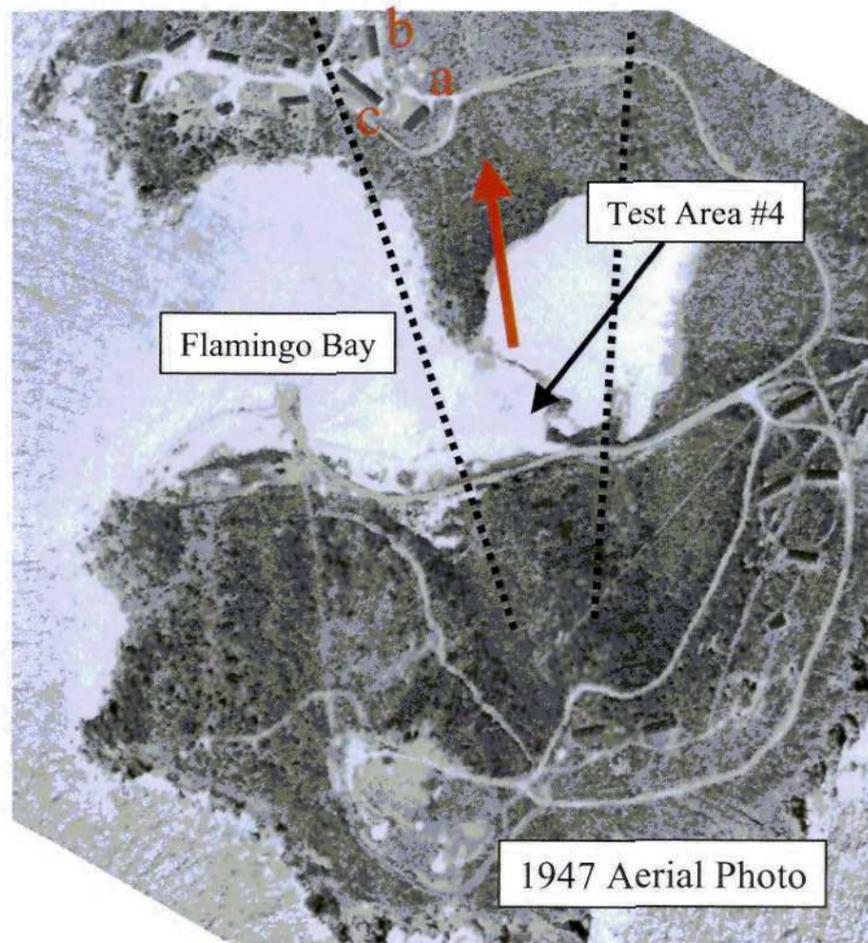


1947 AERIAL PHOTO OF WATER ISLAND
AND CIRCA 1950 GROUND PHOTOS.



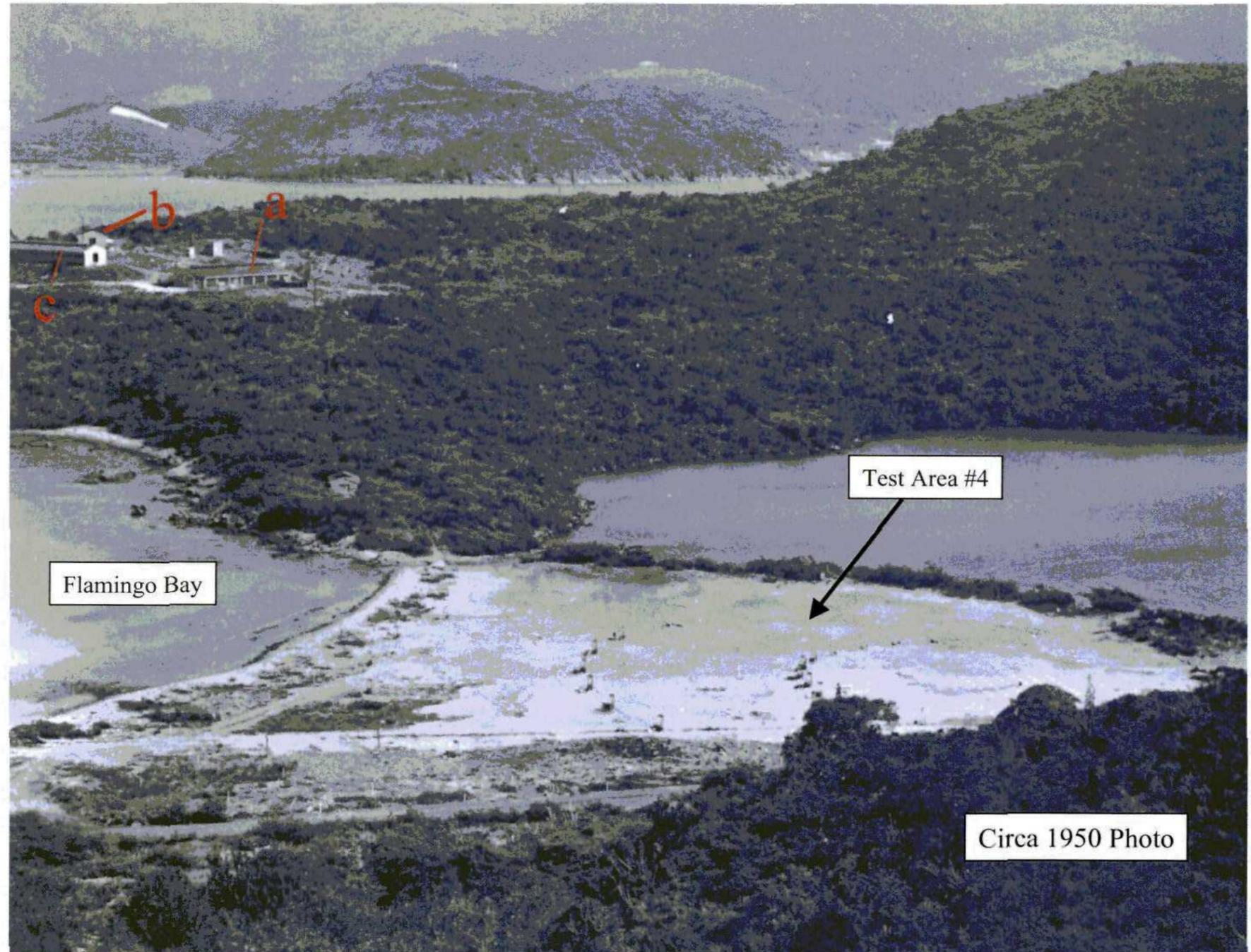
1947 Aerial Photo

Test Area #4: circa 1950



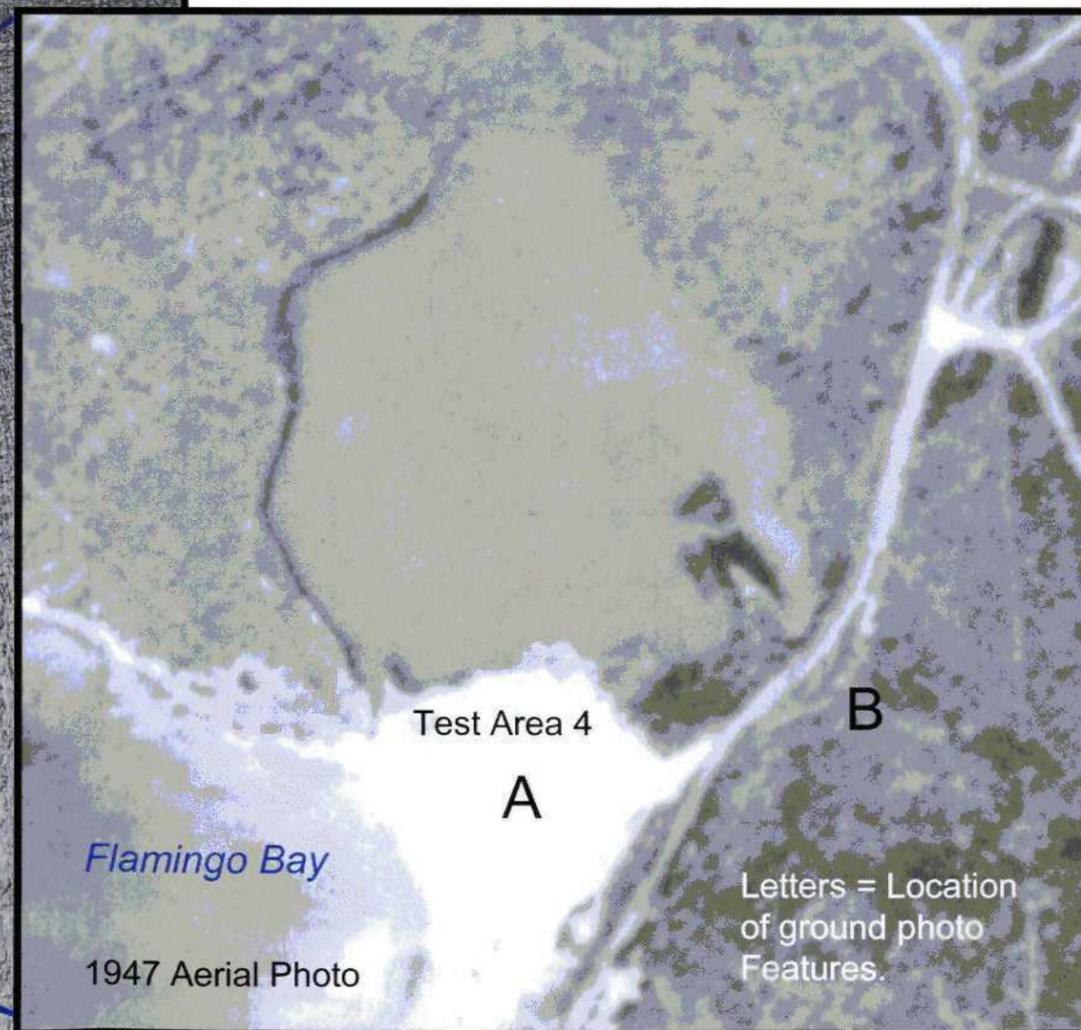
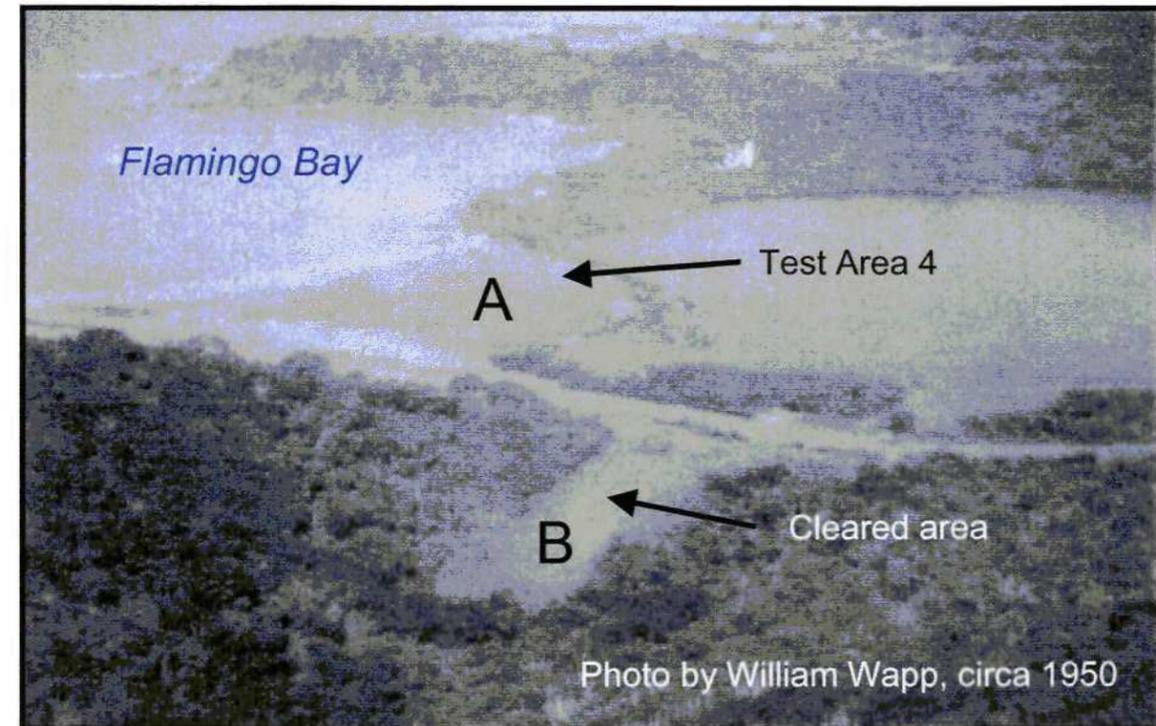
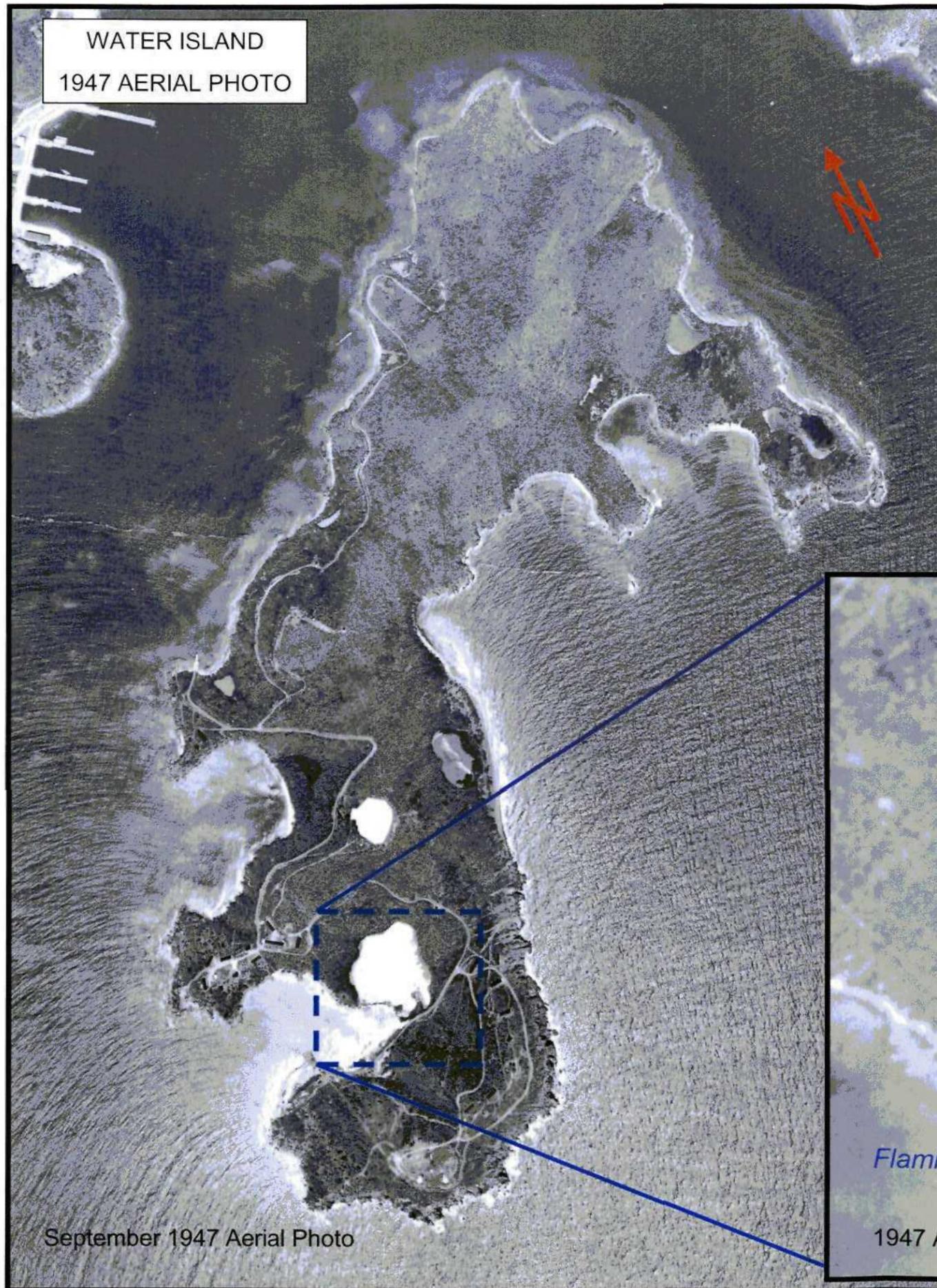
Direction of picture shown at right and approximate field of view. Buildings seen in the ground photo are noted on the aerial photo by letters.

1947 AERIAL PHOTO OF WATER ISLAND AND CIRCA 1950 GROUND PHOTOS.



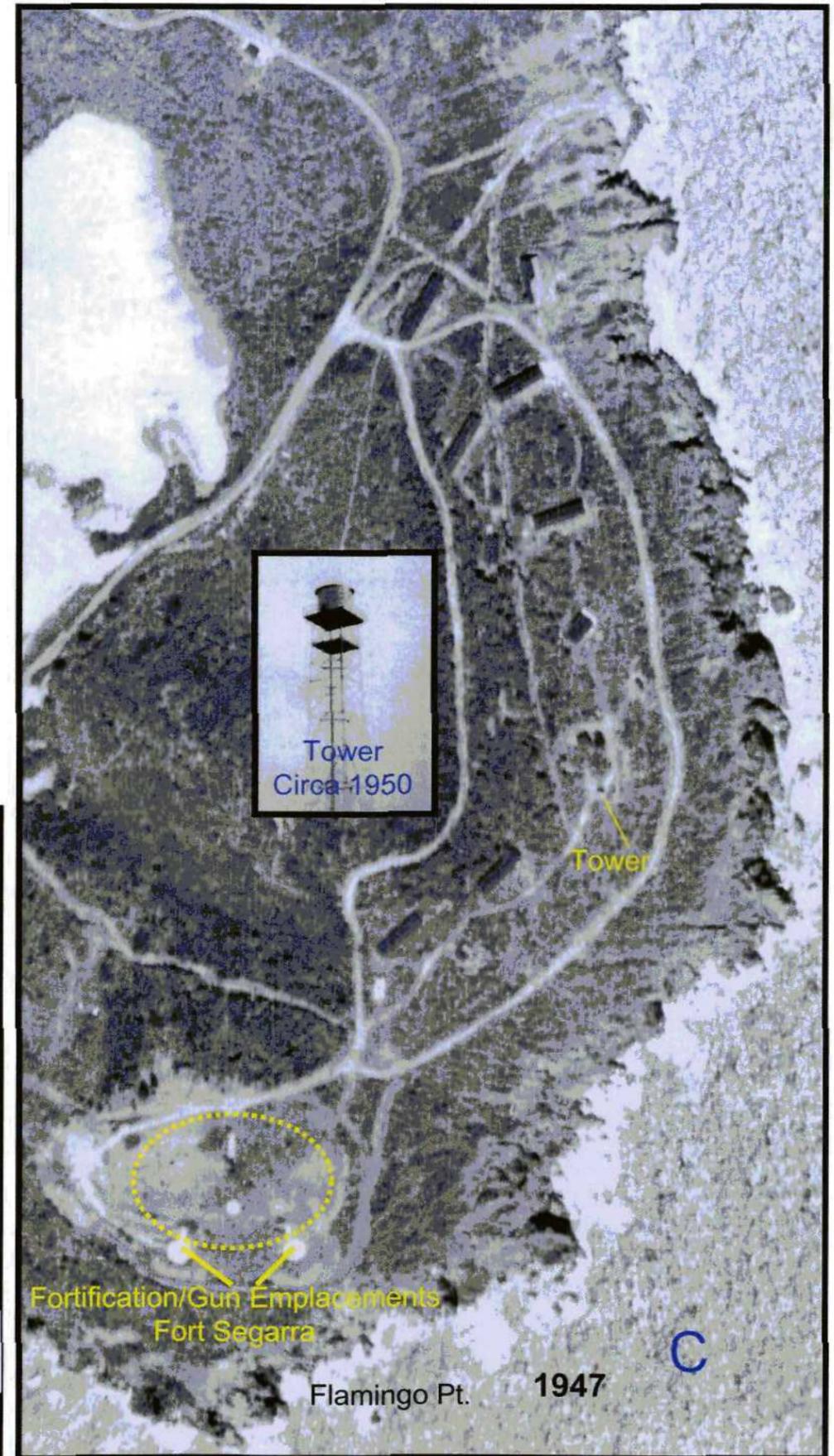
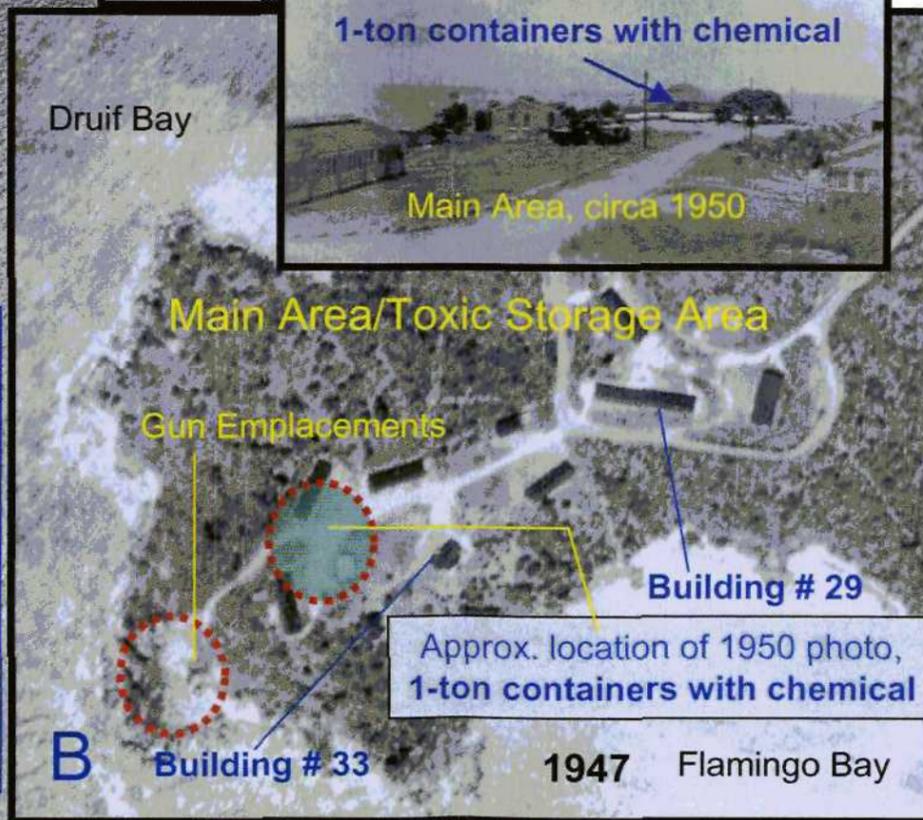
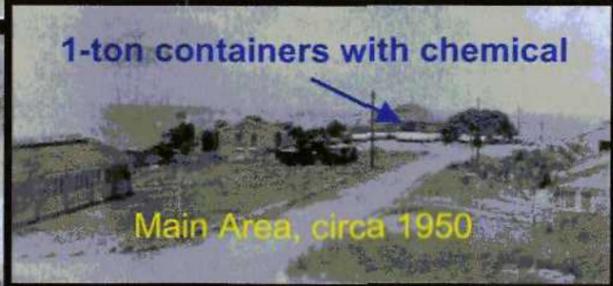
"Area where chemical testing was conducted." photo by William Wapp 1949-1950.

Photo supplied by Mr. Robert Moron, USVI Department of Planning and Natural Resources.



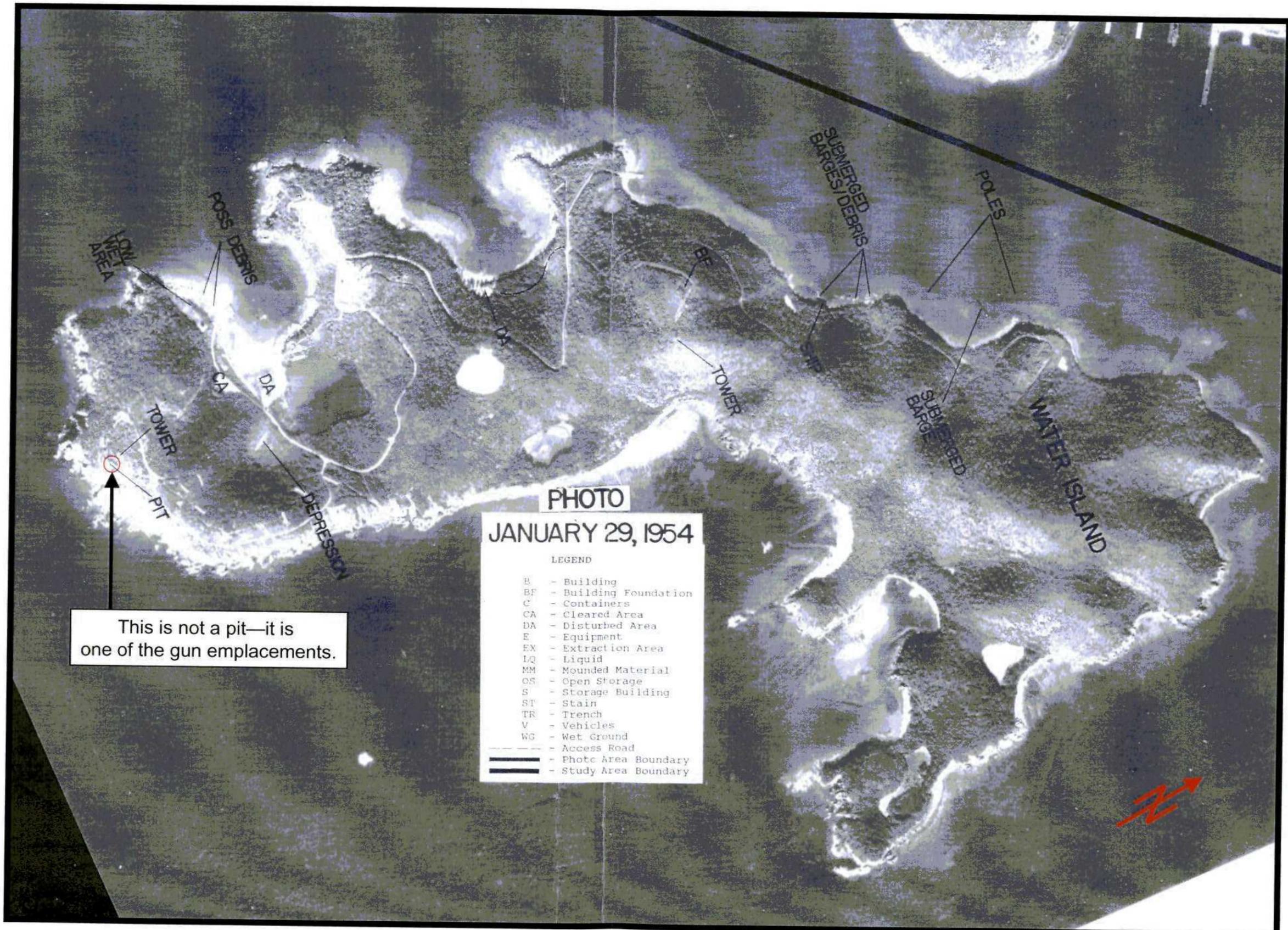
1947 AERIAL PHOTO OF WATER ISLAND AND CIRCA 1950 GROUND PHOTOS.

Some selected feature locations on top of the 1947 aerial photos. Locations based on the 1950 Dept. of Interior property inventory description and the 1990's National Park Service archeological survey by Anderson, Yates, et al. (ground photos by William Wapp).



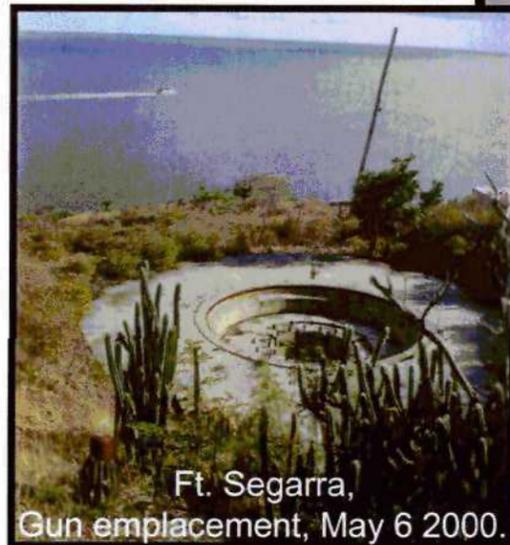
WATER ISLAND
1947 AERIAL PHOTO

PREVIOUS ANALYSIS: PROVIDED BY JACKSONVILLE DISTRICT

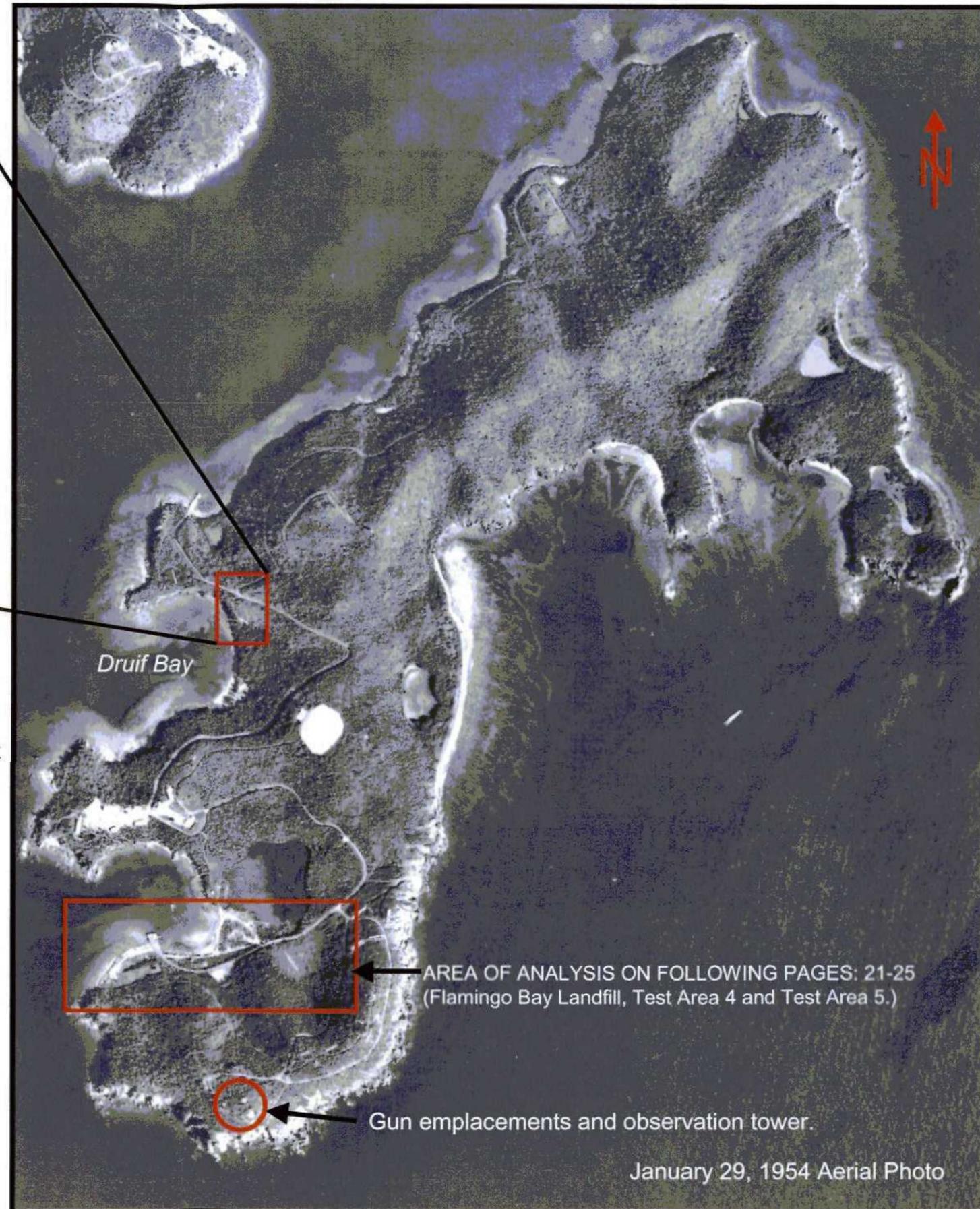
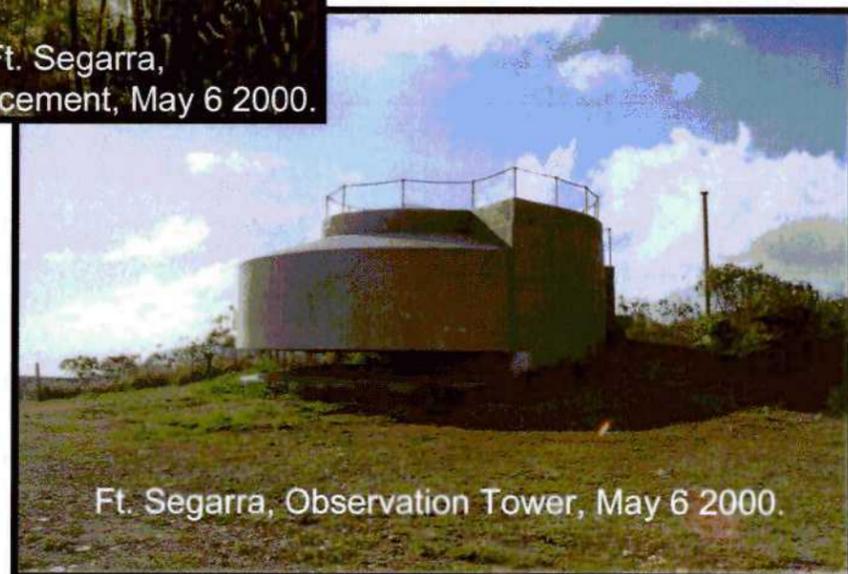


This is not a pit—it is one of the gun emplacements.

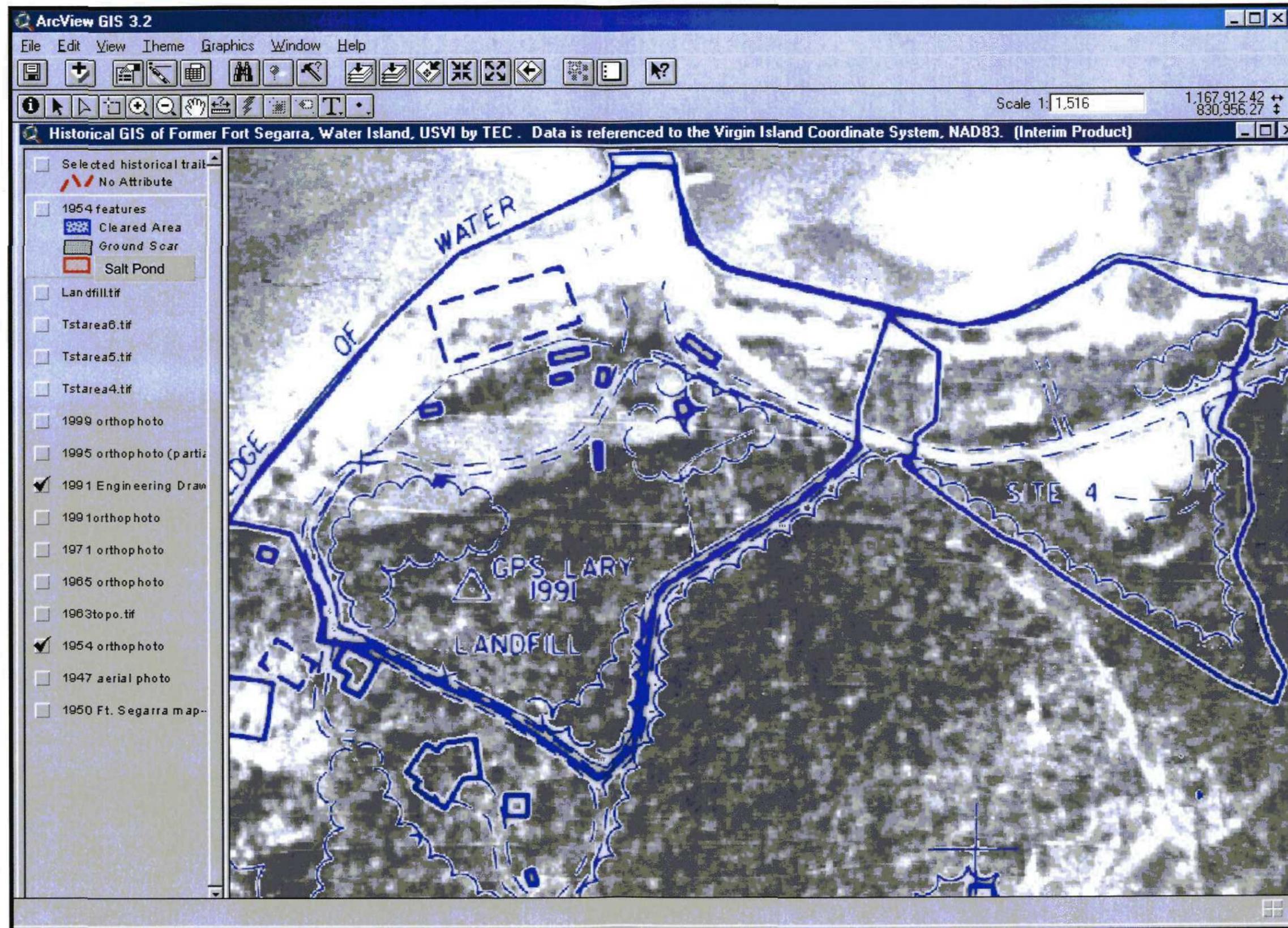
1954 AERIAL PHOTO OF WATER ISLAND



Photos provided by Southeast Archeological Center, National Park Service, Tallahassee, Florida

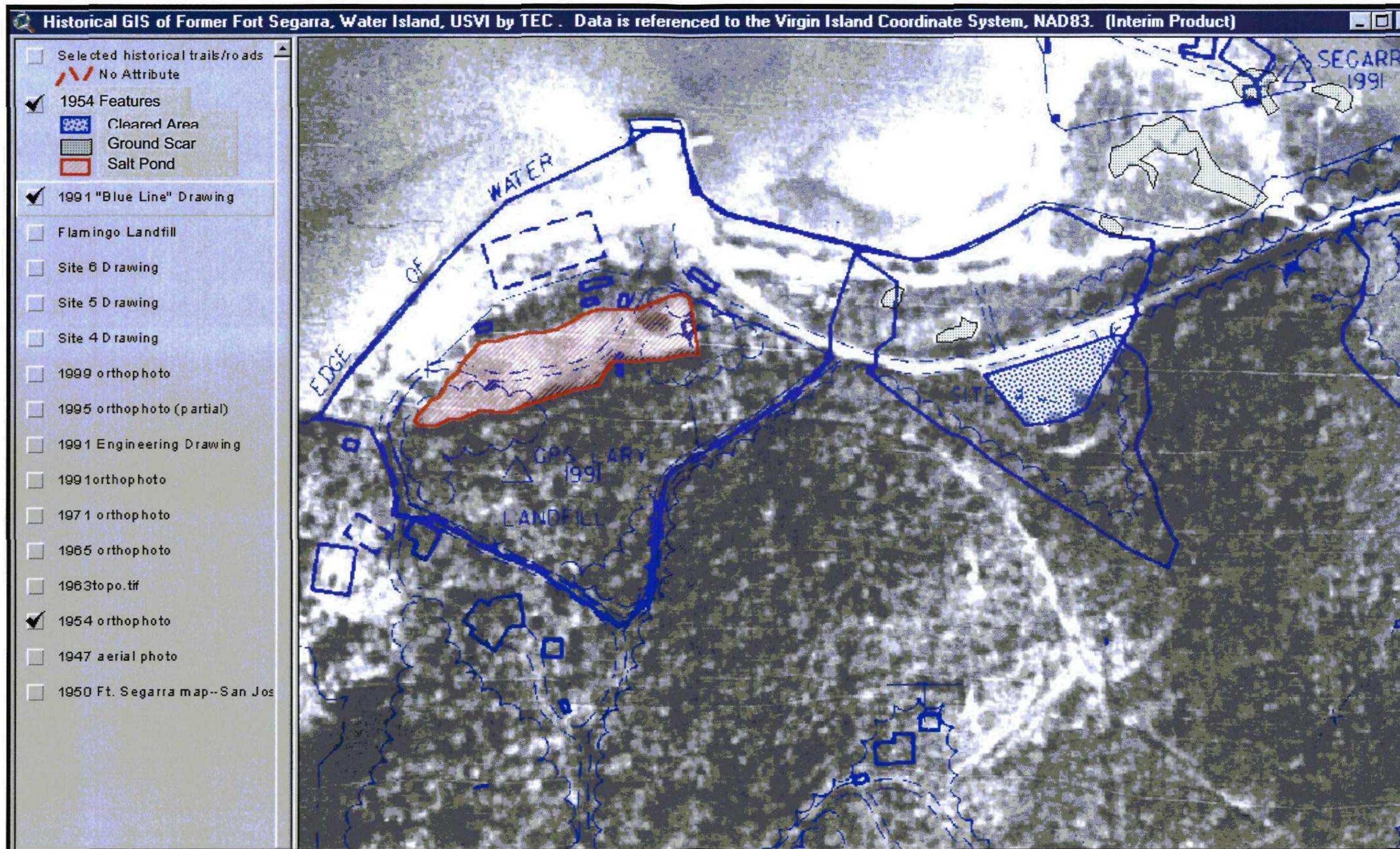


Flamingo Landfill and Site 4 (Test Area 4)



1954 aerial photo with the 1991 “blue line” engineering drawing superimposed.

Flamingo Landfill and Site 4 (Test Area 4)



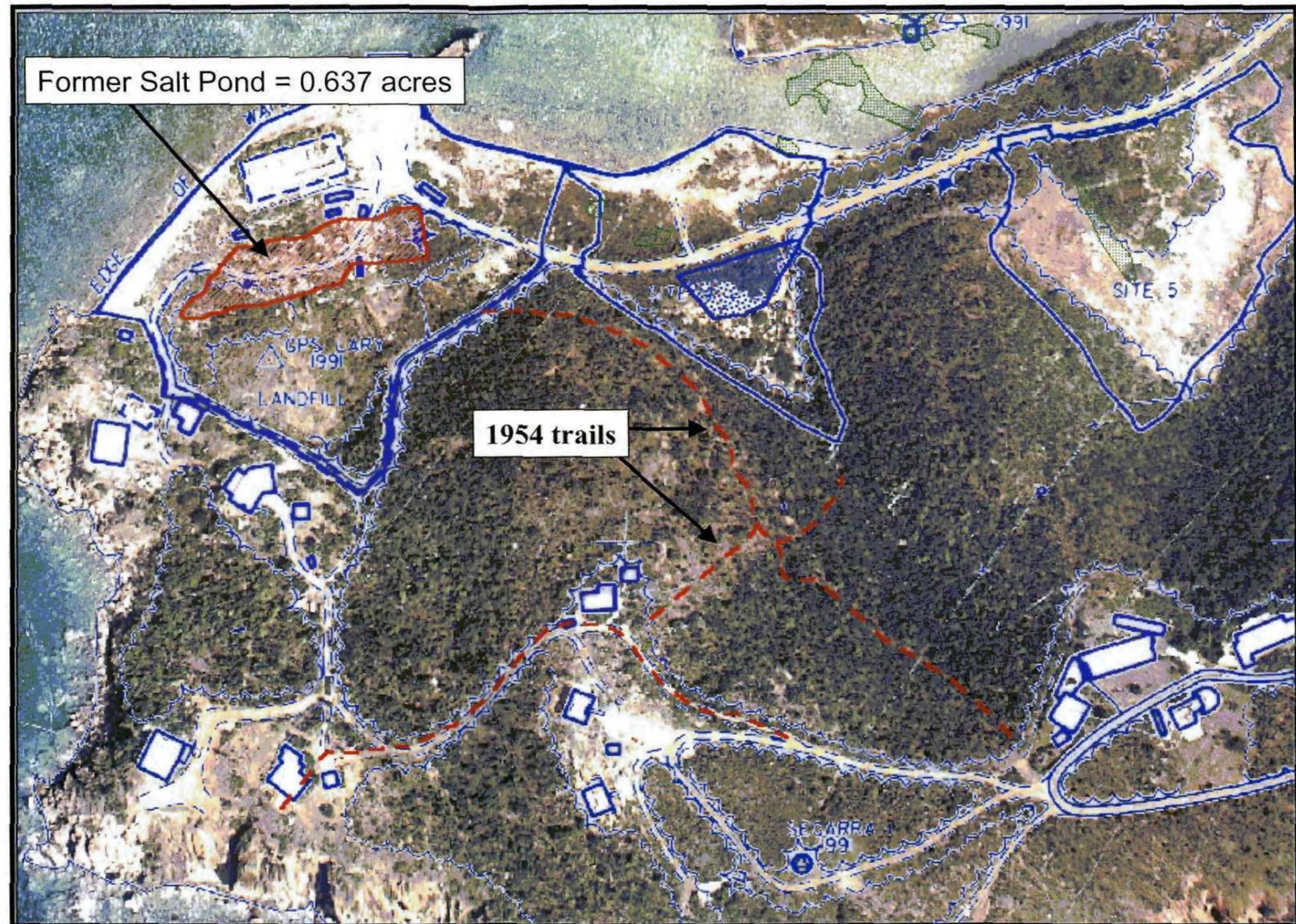
1954 features on the 1954 aerial photo. 1991 "blue line" engineering drawing superimposed.

Flamingo Landfill, Site 4 (Test Area 4) and Site 5 (Test Area 5)

✓	1954 Features
■	Cleared Area
■	Ground Scar
■	Salt Pond

Legend

Blue lines are the 1991 engineering drawing lines.
(1991 drawings by Lowe Engineers, "blue line" created by TEC)



1954 features on the 1954 aerial photo. 1991 "blue line" engineering drawing superimposed.

Site 4 (Test Area 4) and Site 5 (Test Area 5)



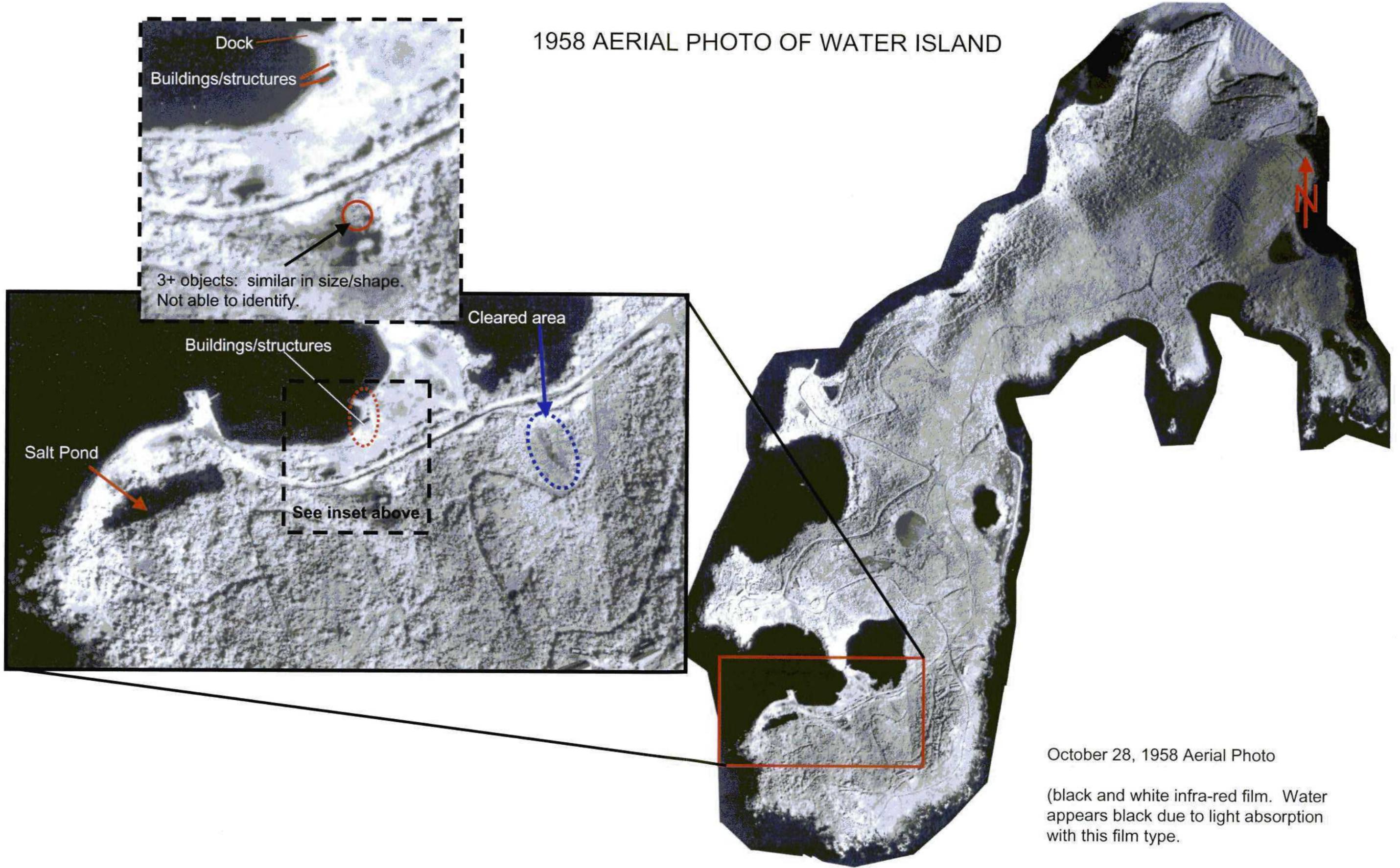
1991 aerial photo. 1991 “blue line” engineering drawing superimposed.

Site 4 (Test Area 4) and Site 5 (Test Area 5)



1954 features on the 1991 aerial photo. 1991 "blue line" engineering drawing superimposed.

1958 AERIAL PHOTO OF WATER ISLAND

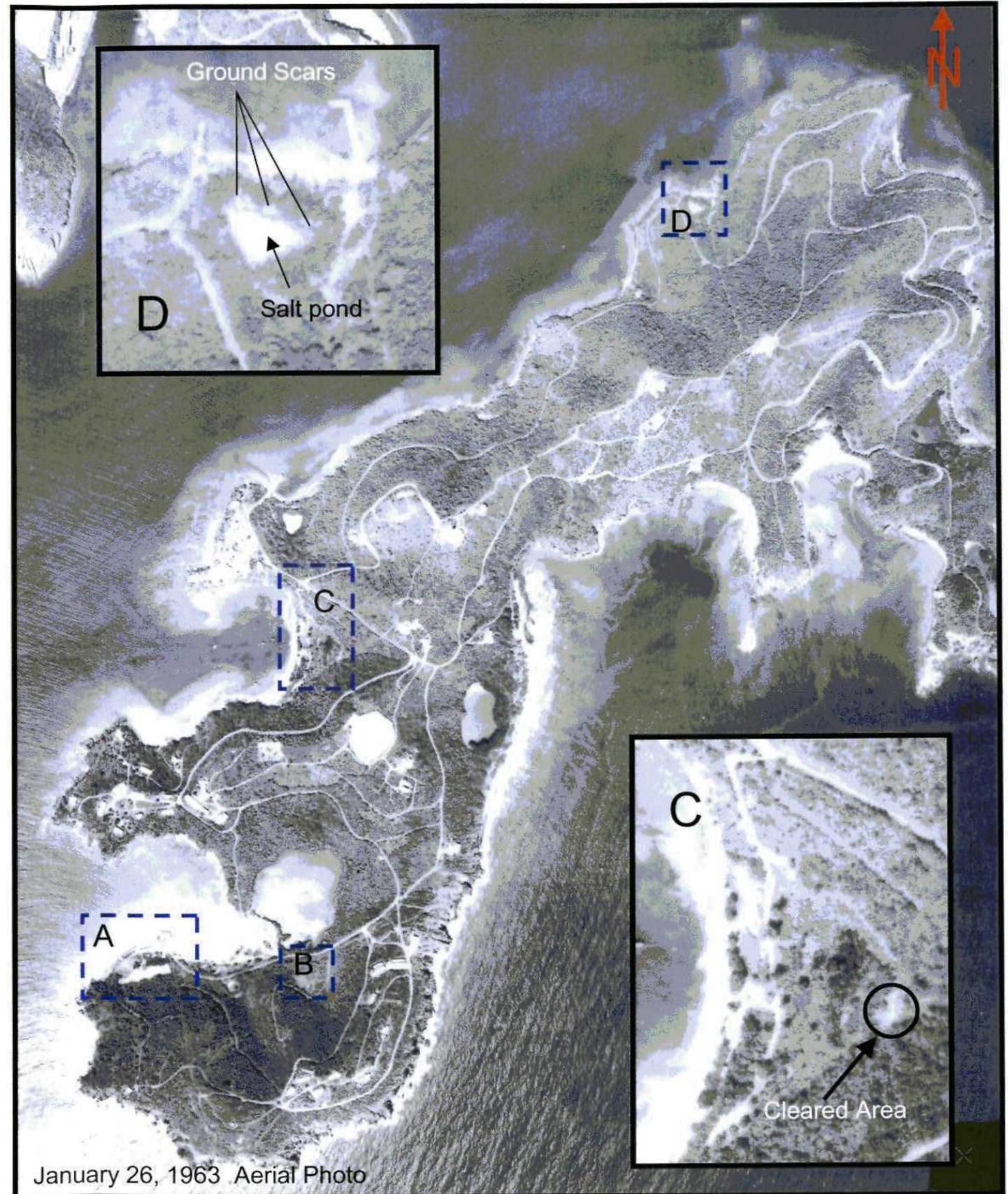
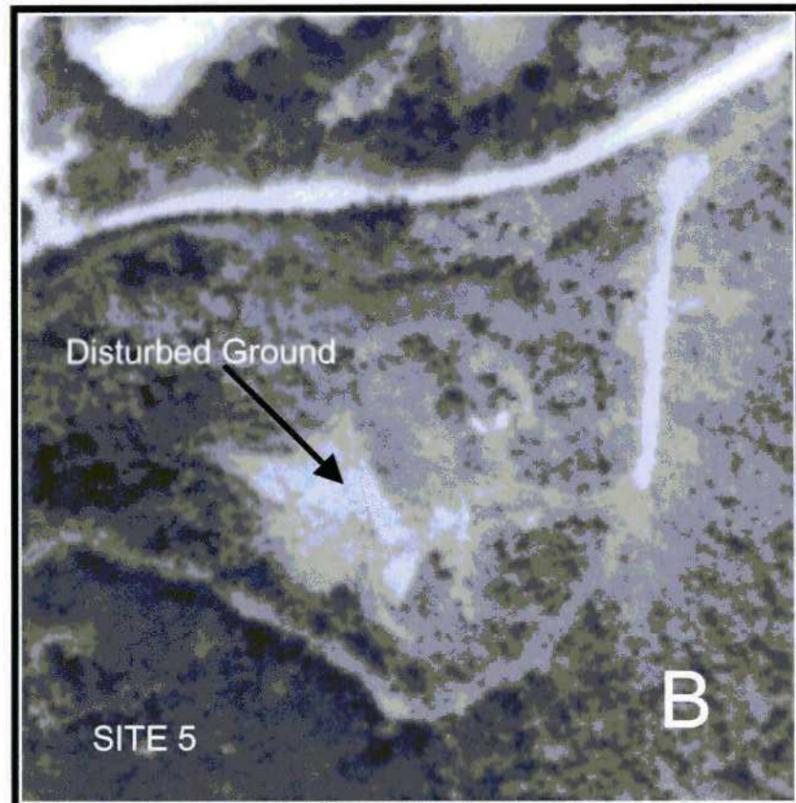
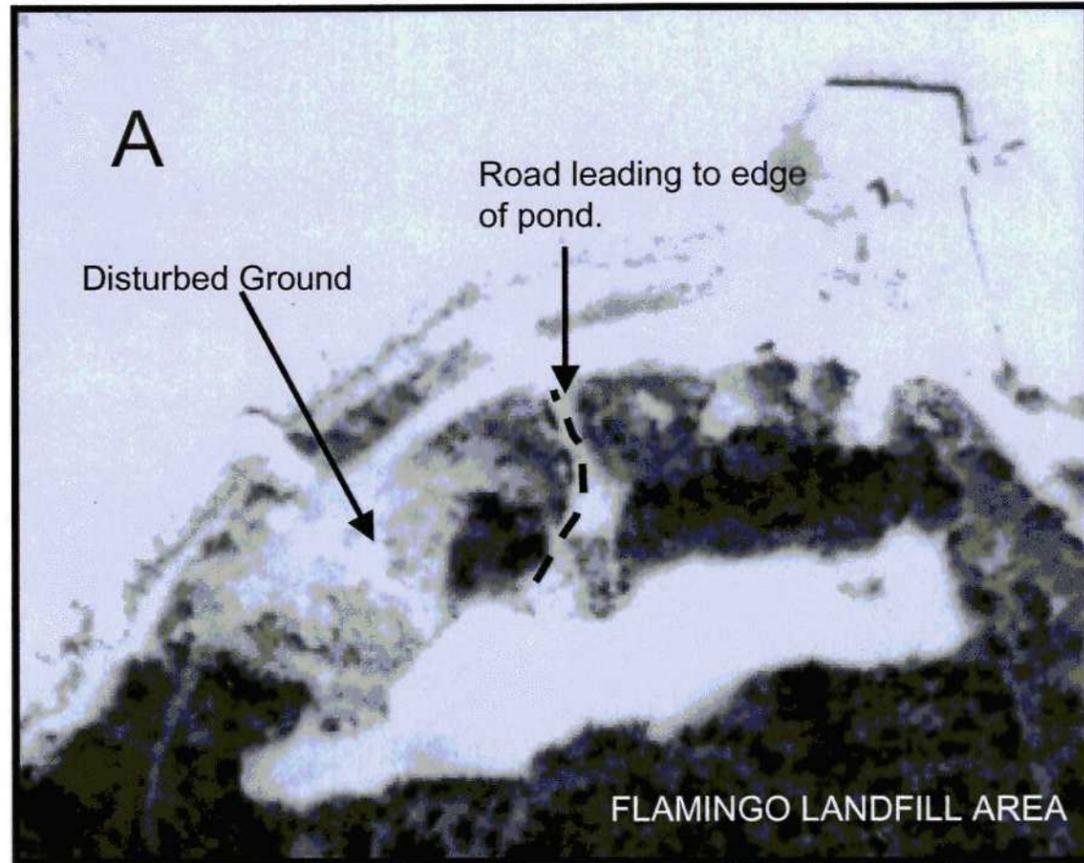


Dock
Buildings/structures
3+ objects: similar in size/shape.
Not able to identify.

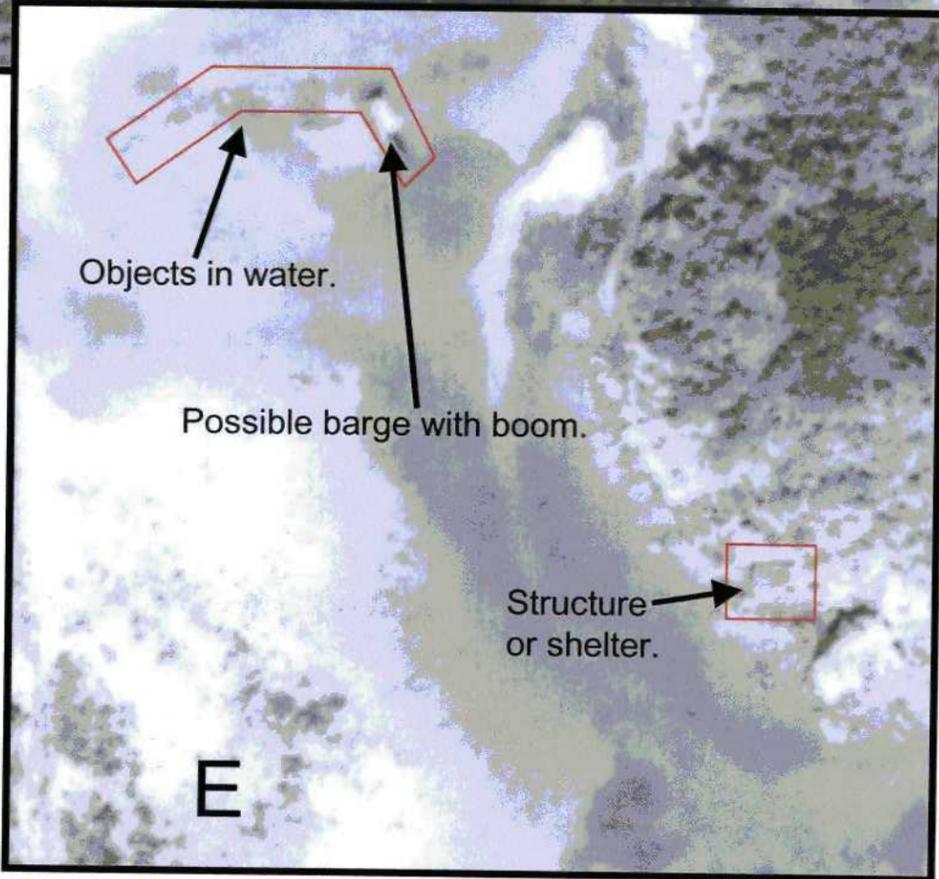
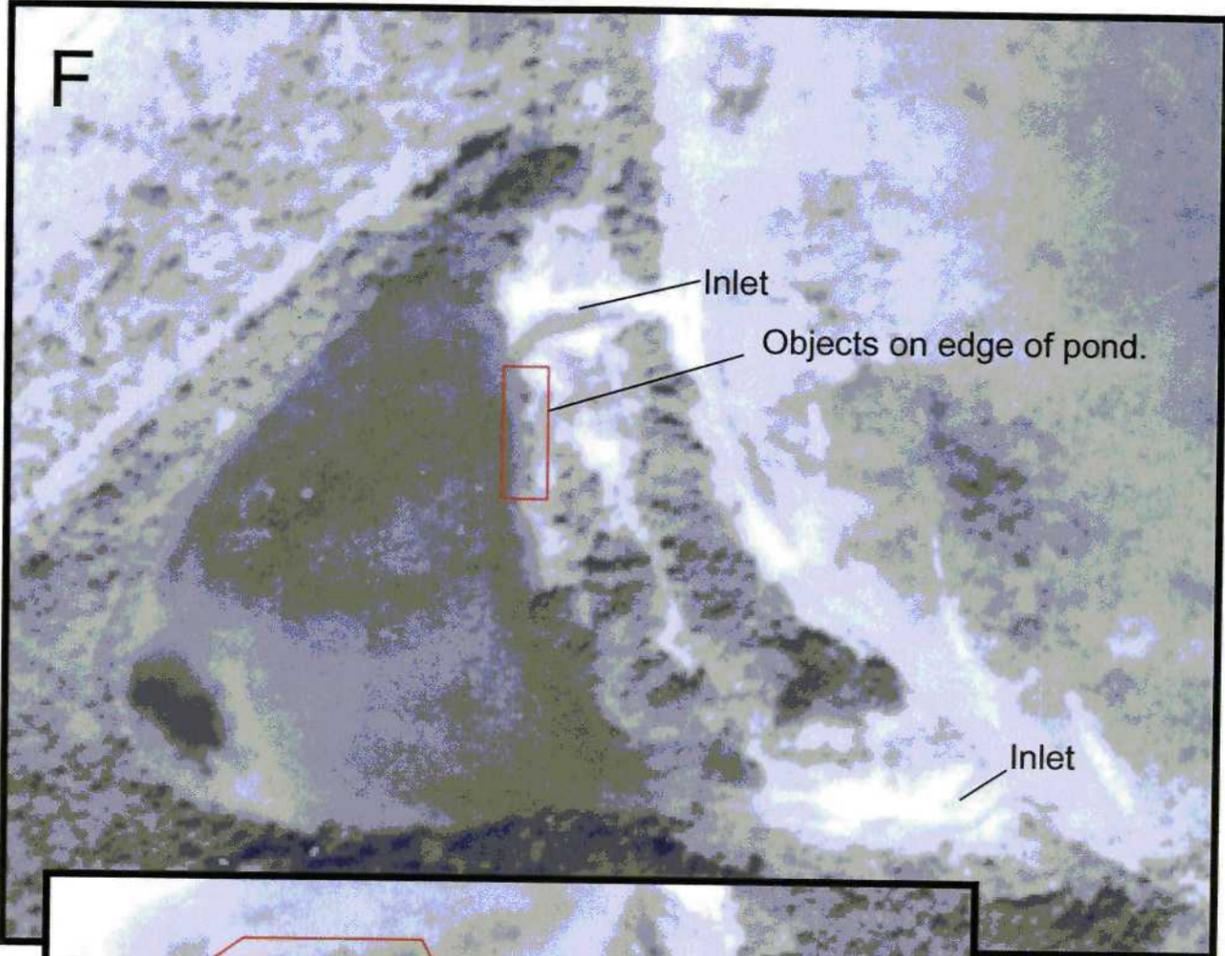
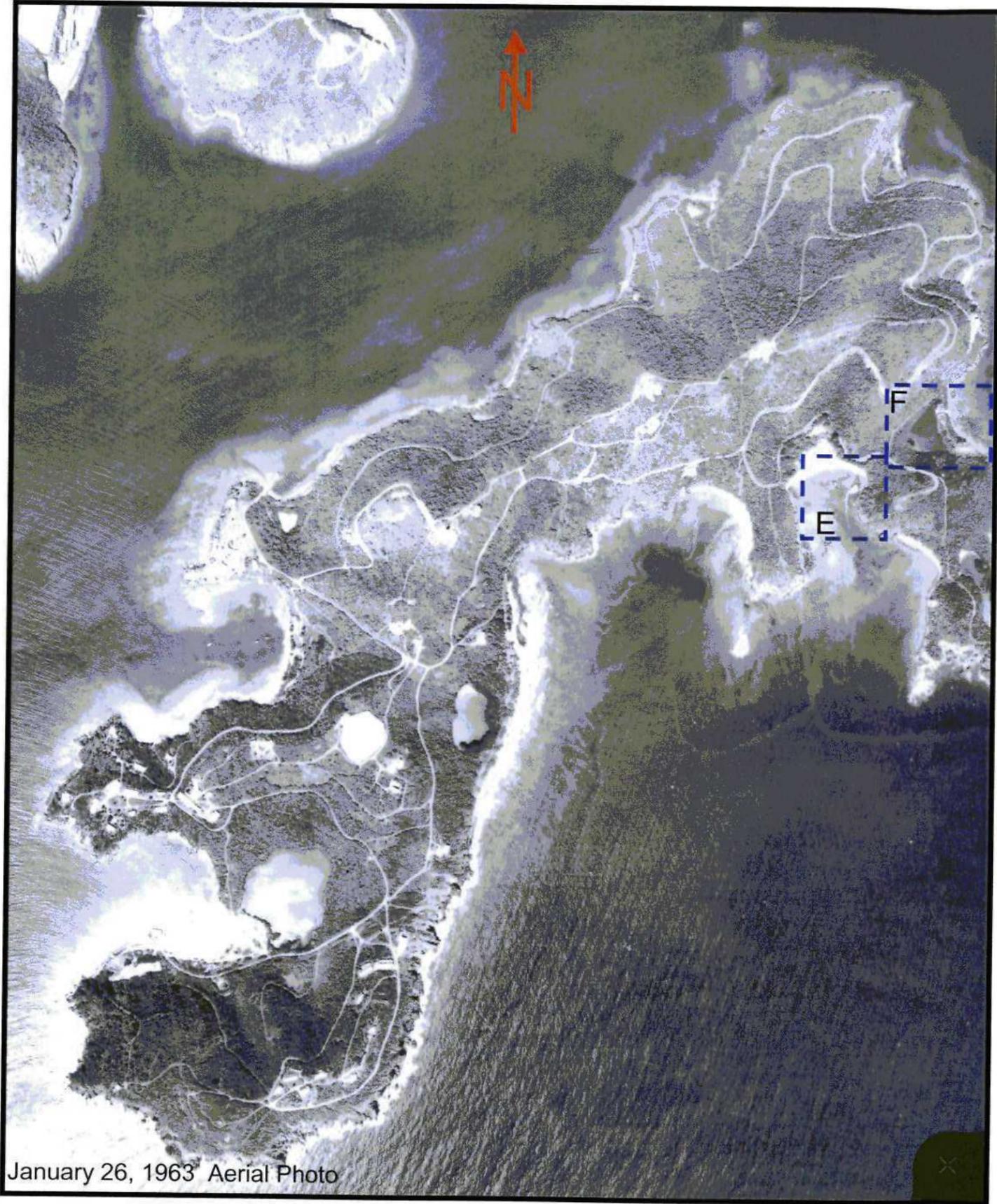
Salt Pond
Buildings/structures
Cleared area
See inset above

October 28, 1958 Aerial Photo
(black and white infra-red film. Water appears black due to light absorption with this film type.)

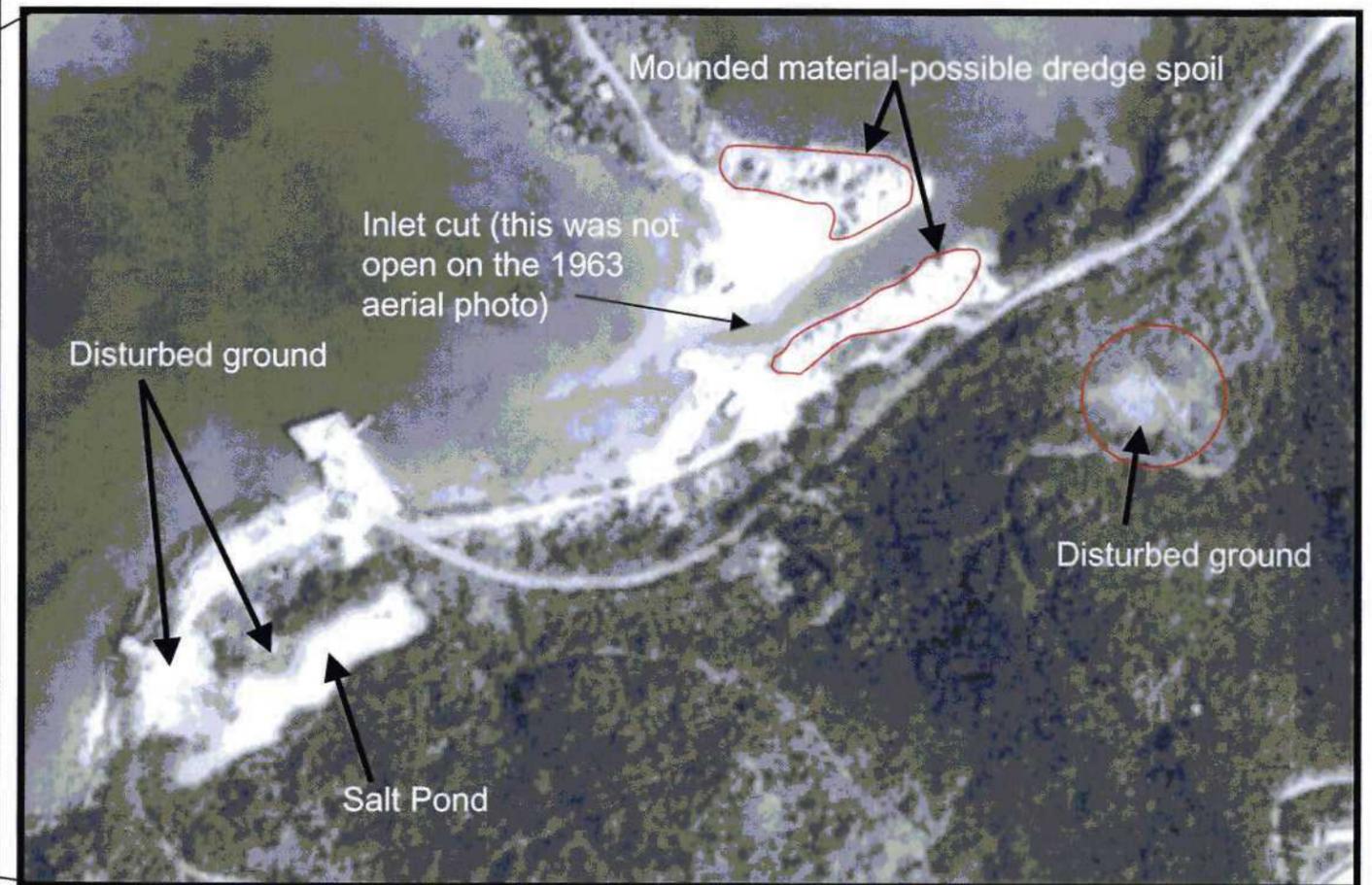
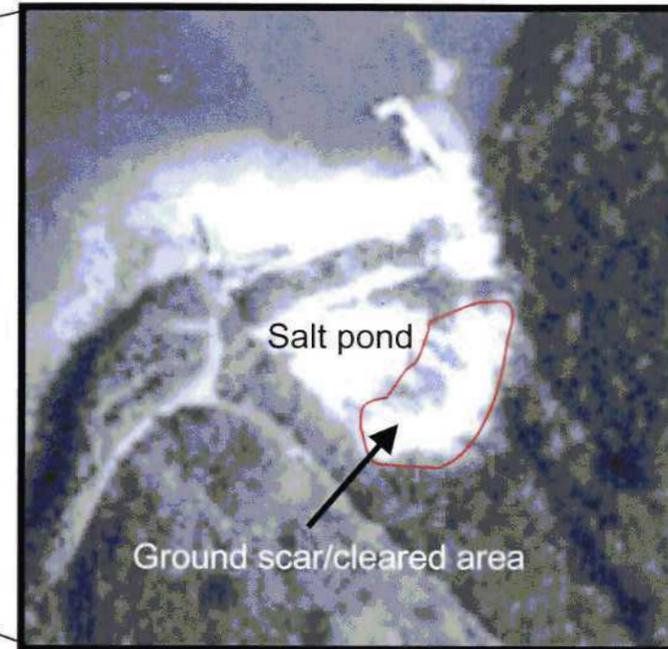
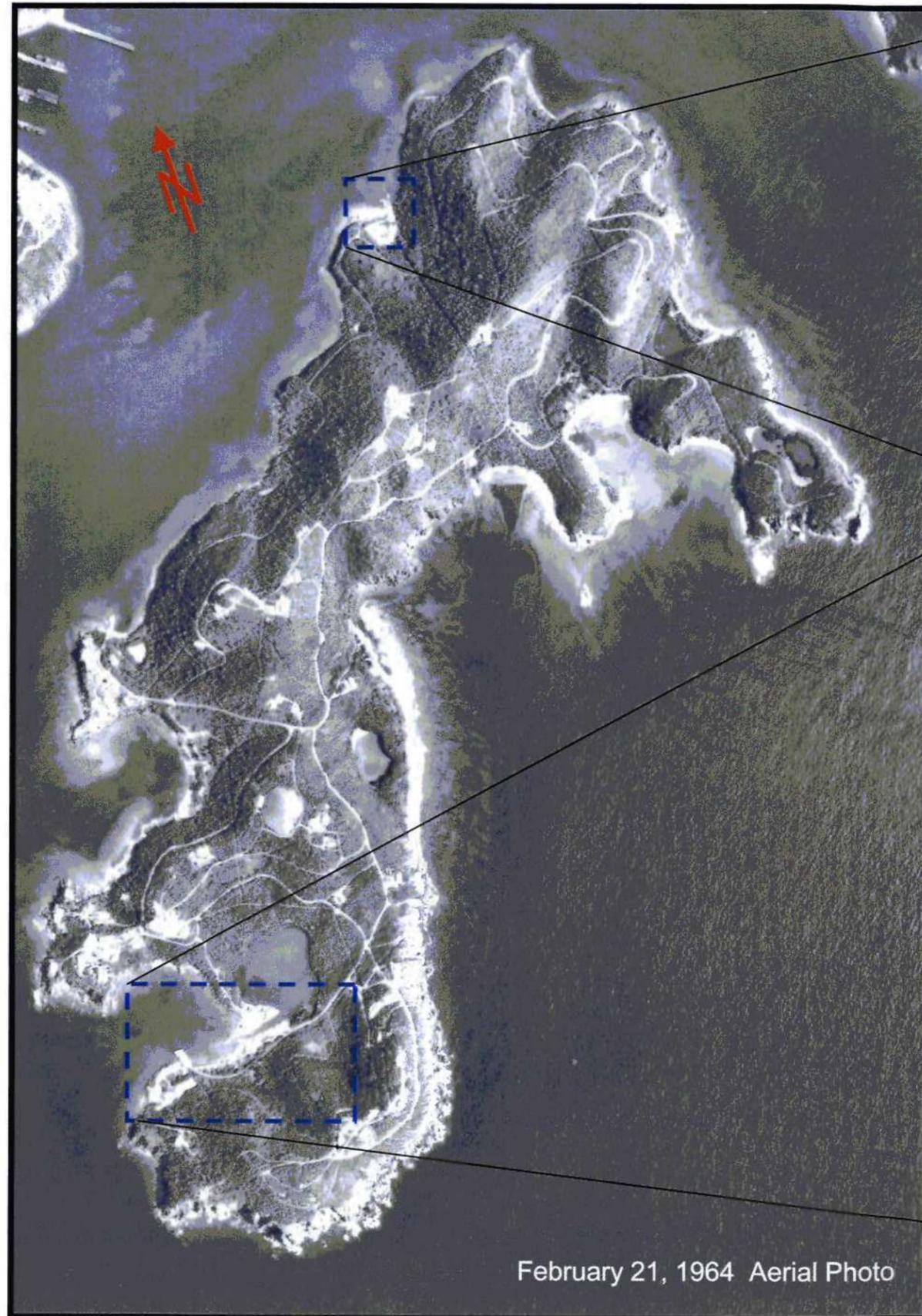
1963 AERIAL PHOTO OF WATER ISLAND



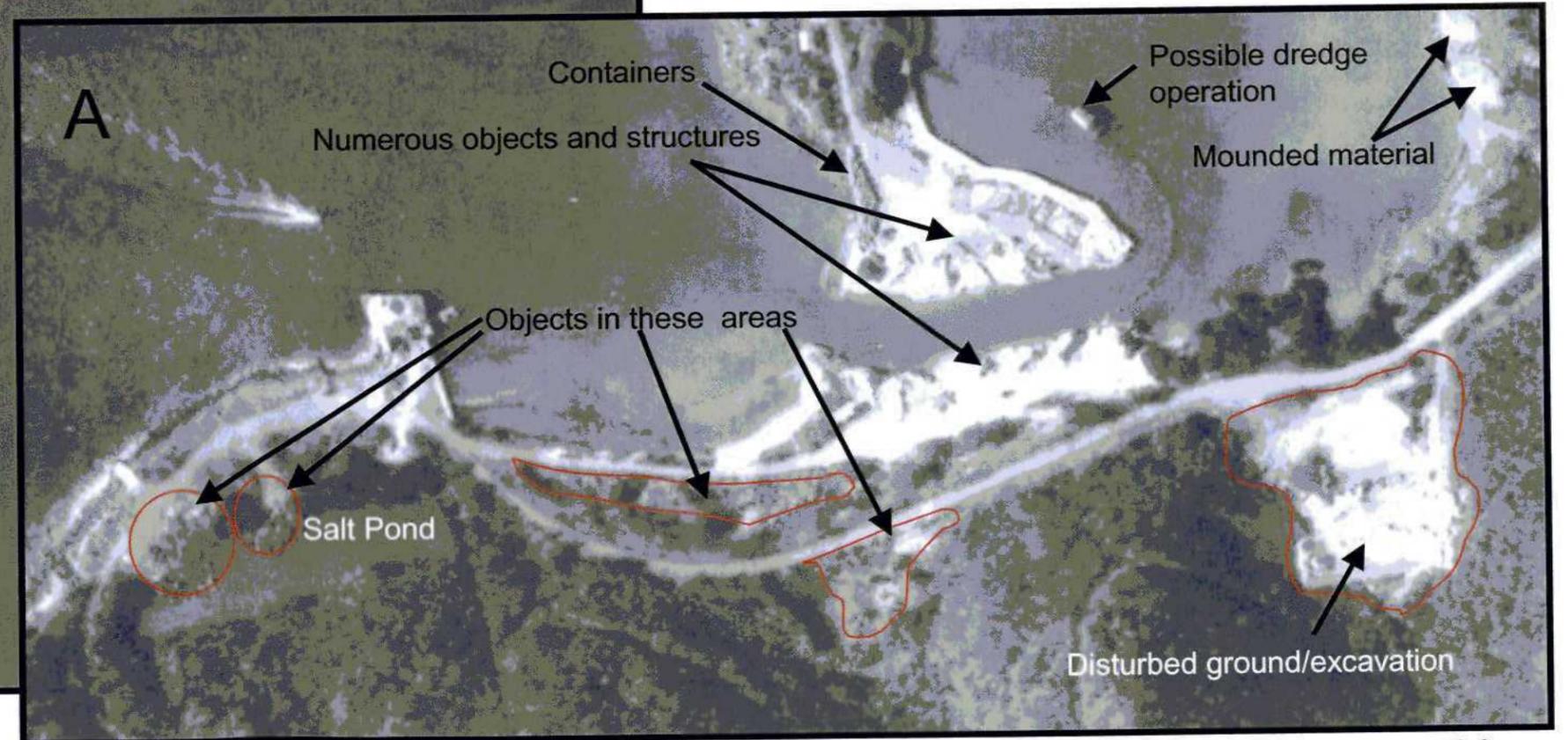
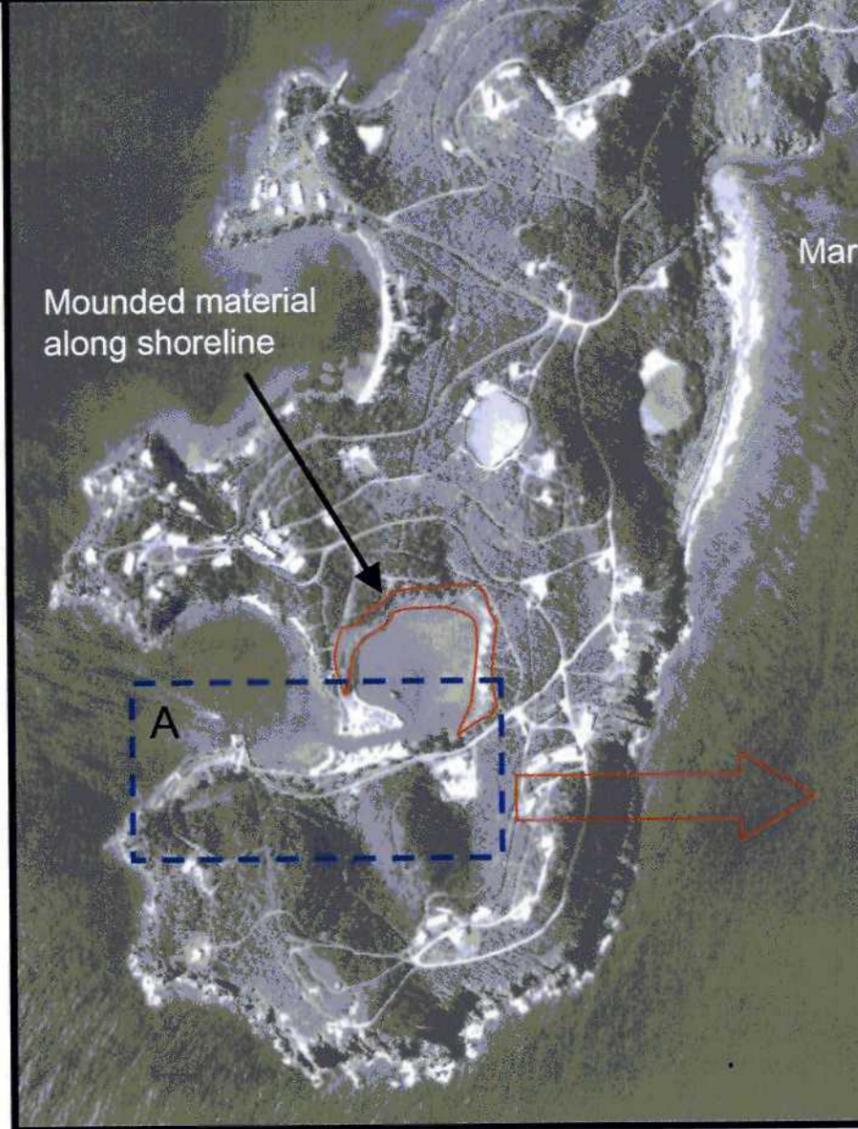
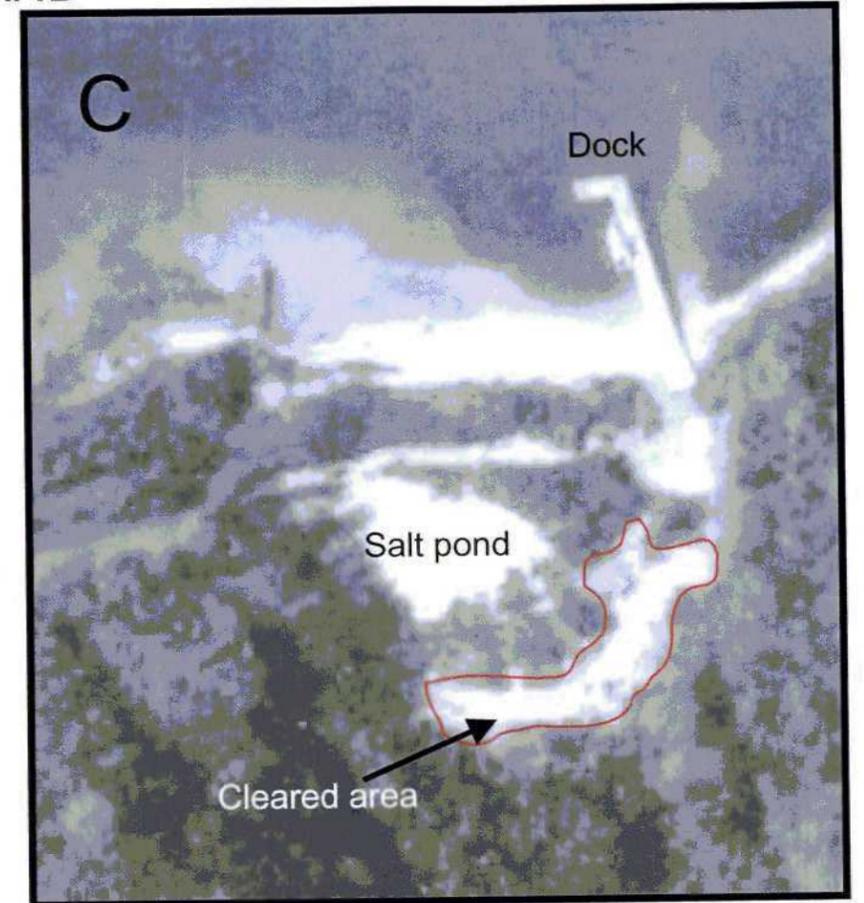
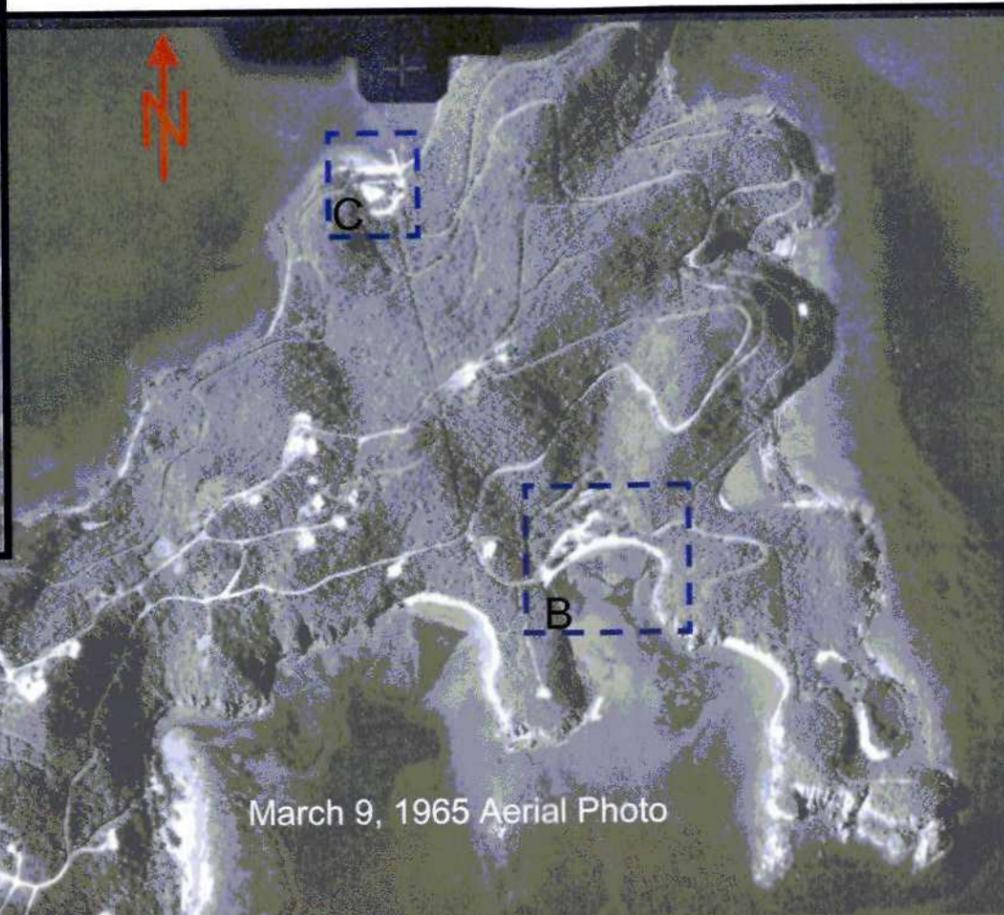
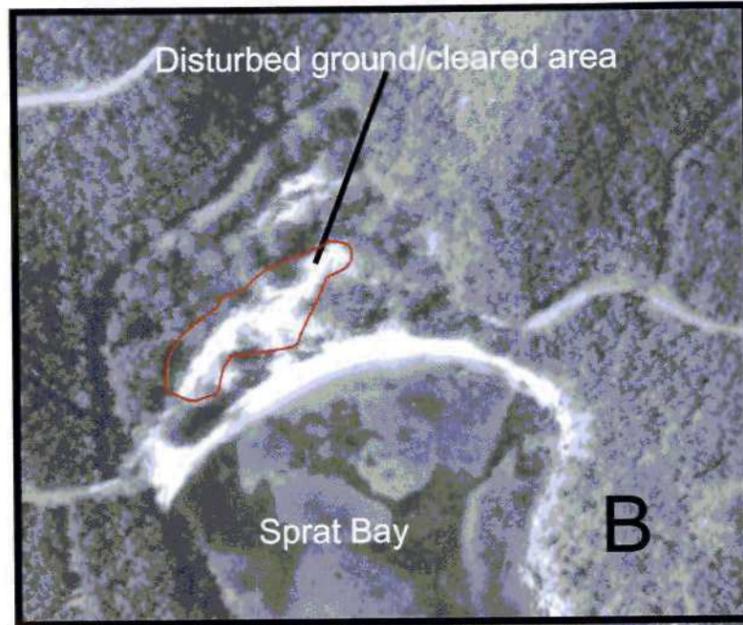
1963 AERIAL PHOTO OF WATER ISLAND



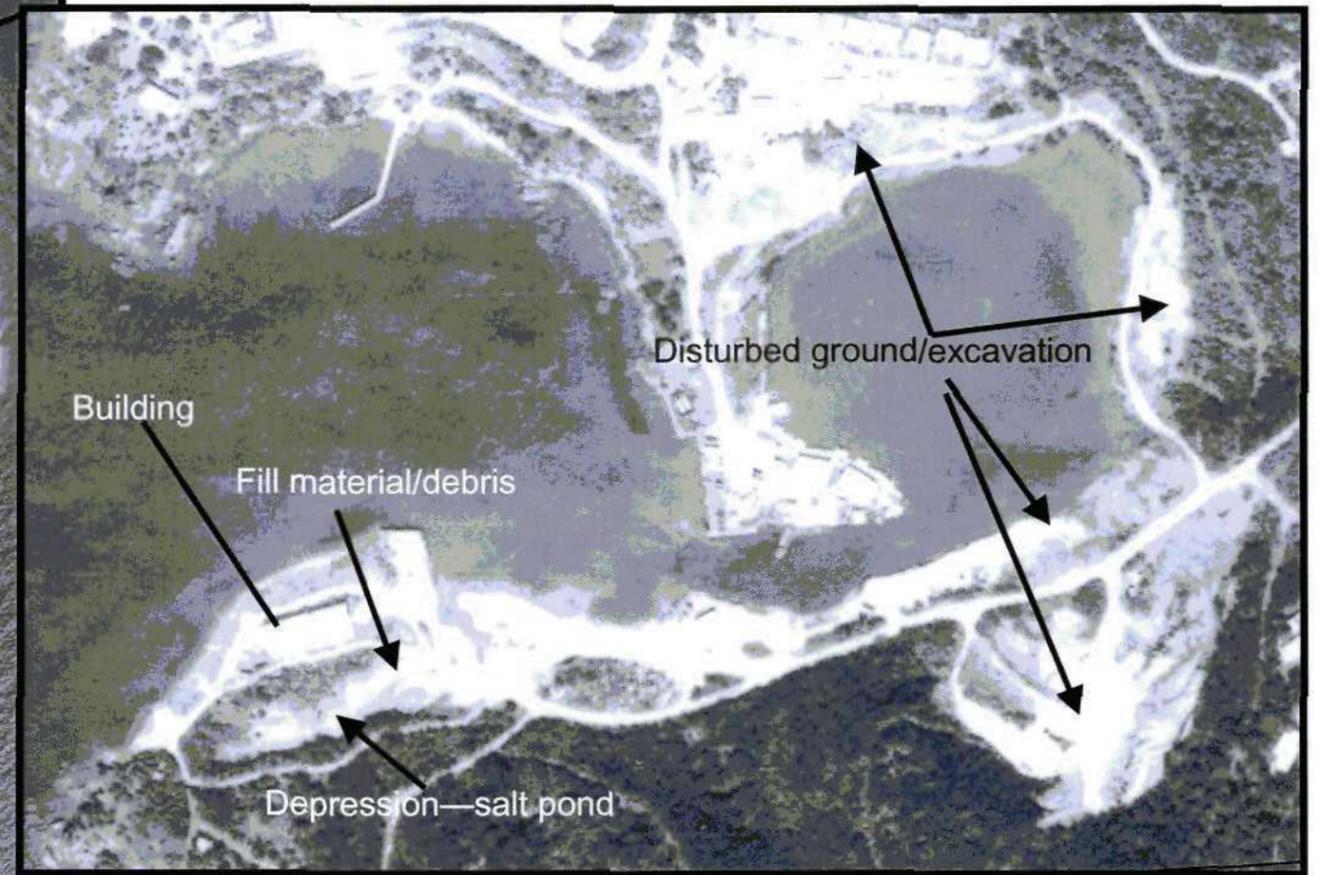
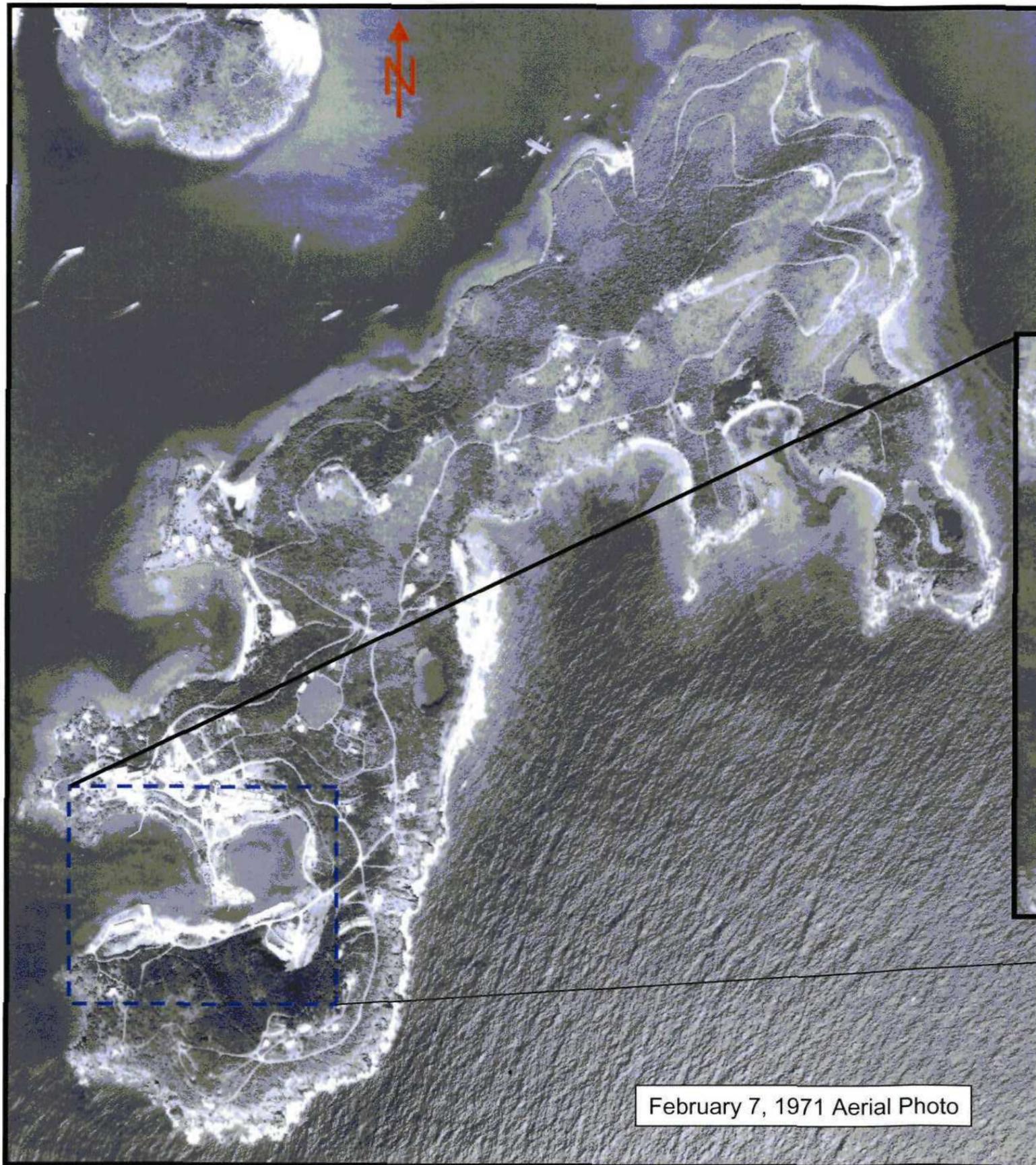
1964 AERIAL PHOTO OF WATER ISLAND



1965 AERIAL PHOTO OF WATER ISLAND

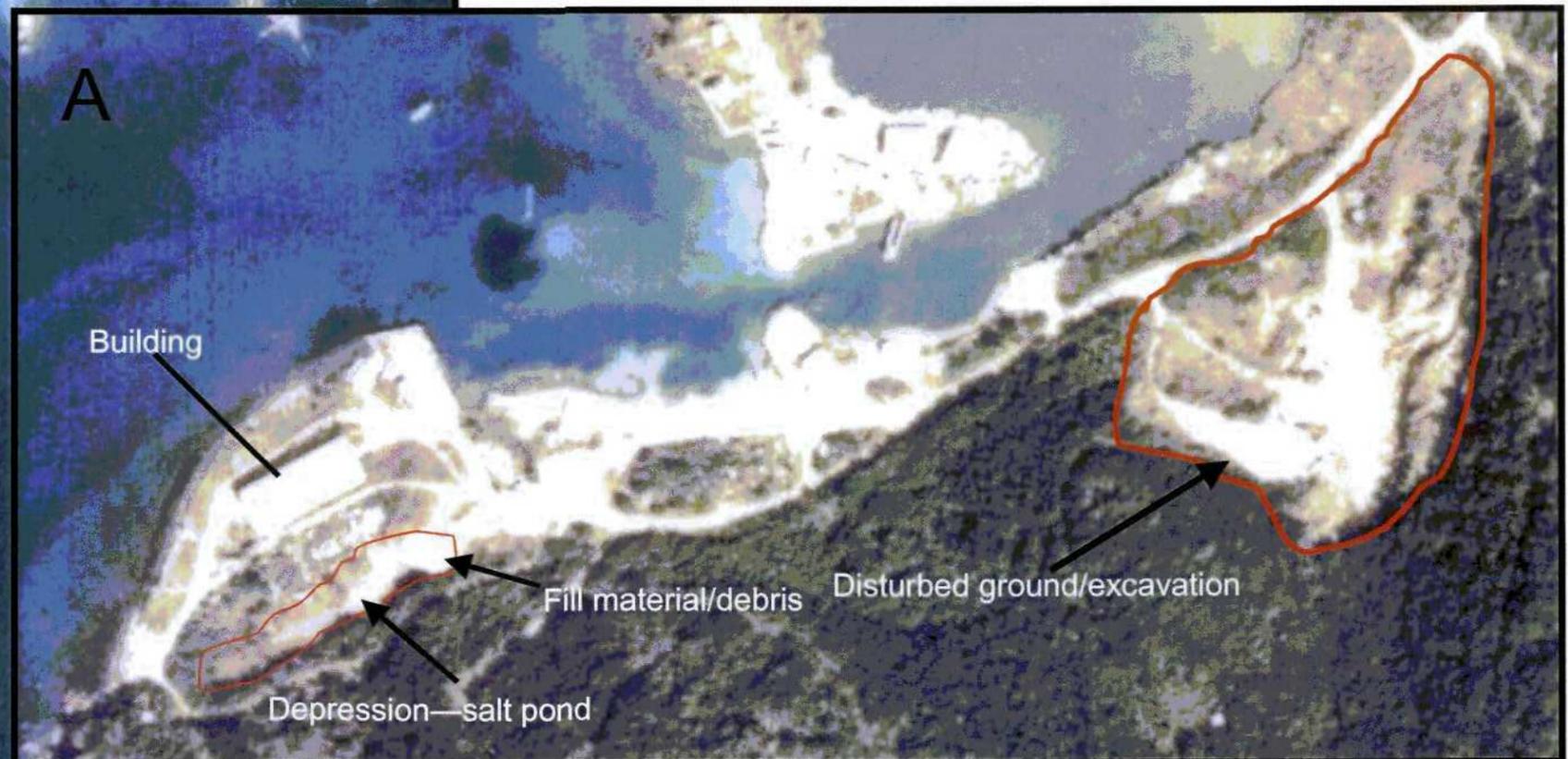
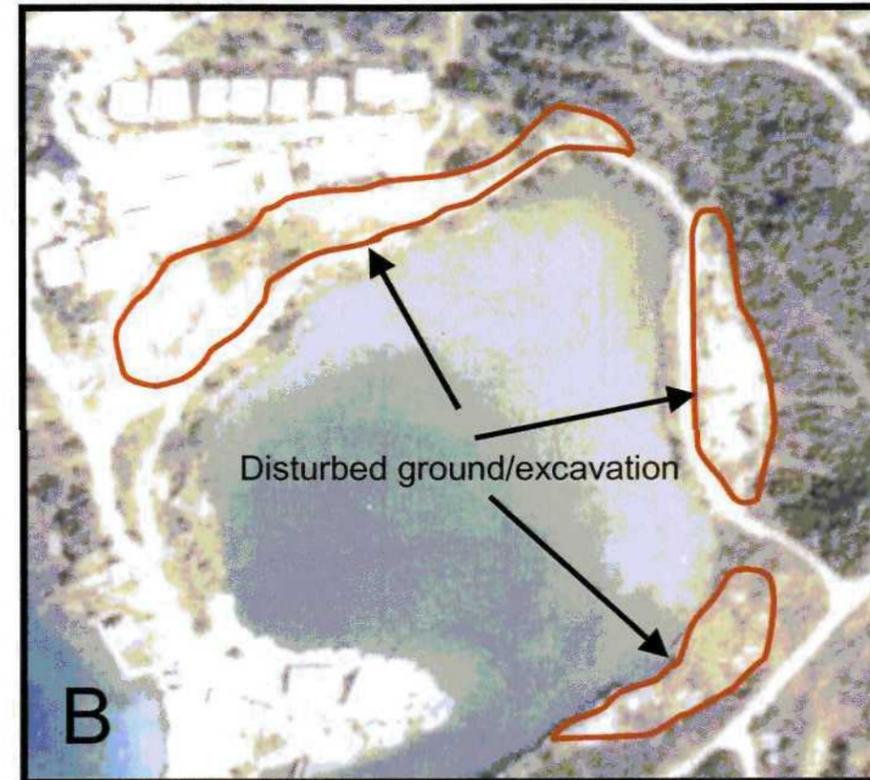
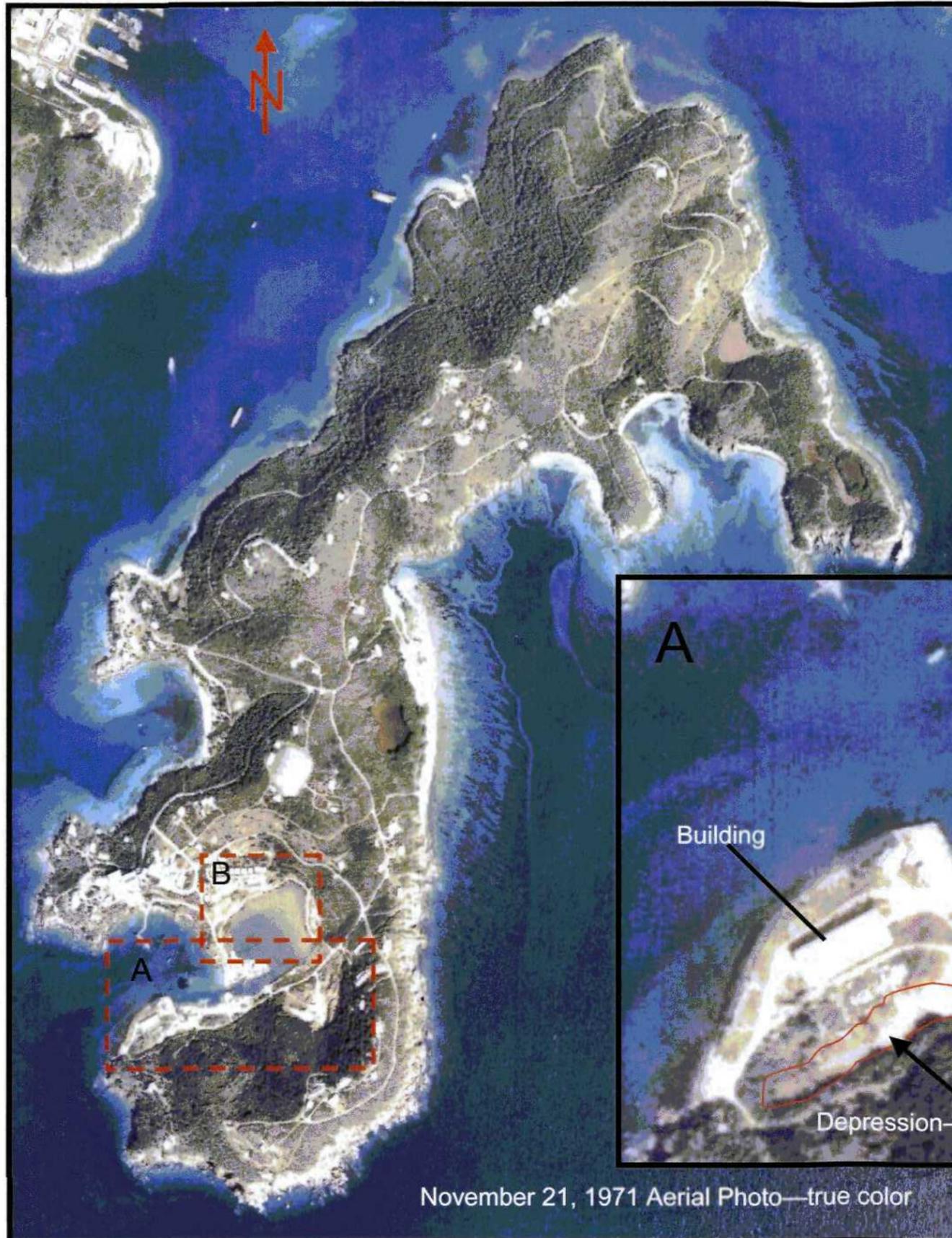


1971 AERIAL PHOTO OF WATER ISLAND



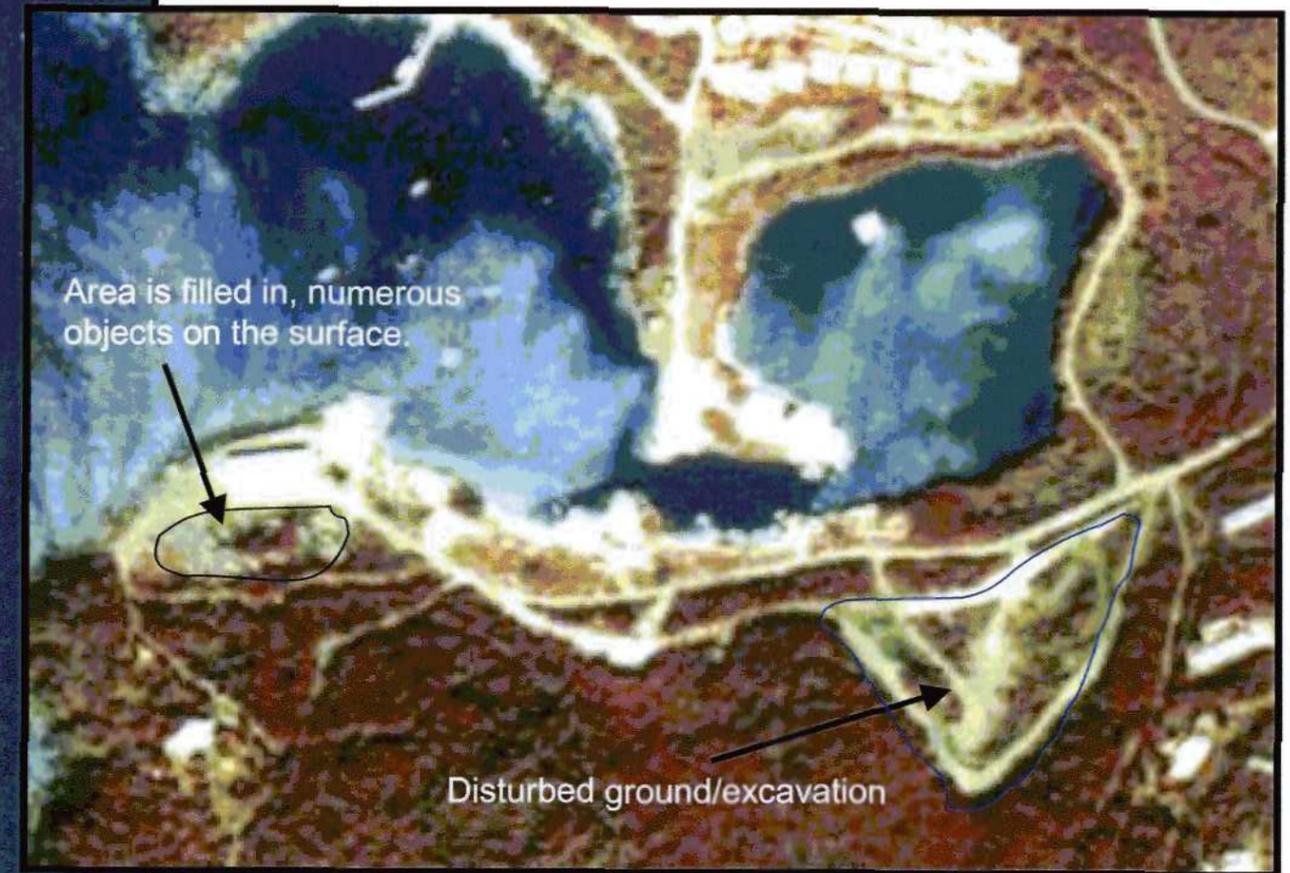
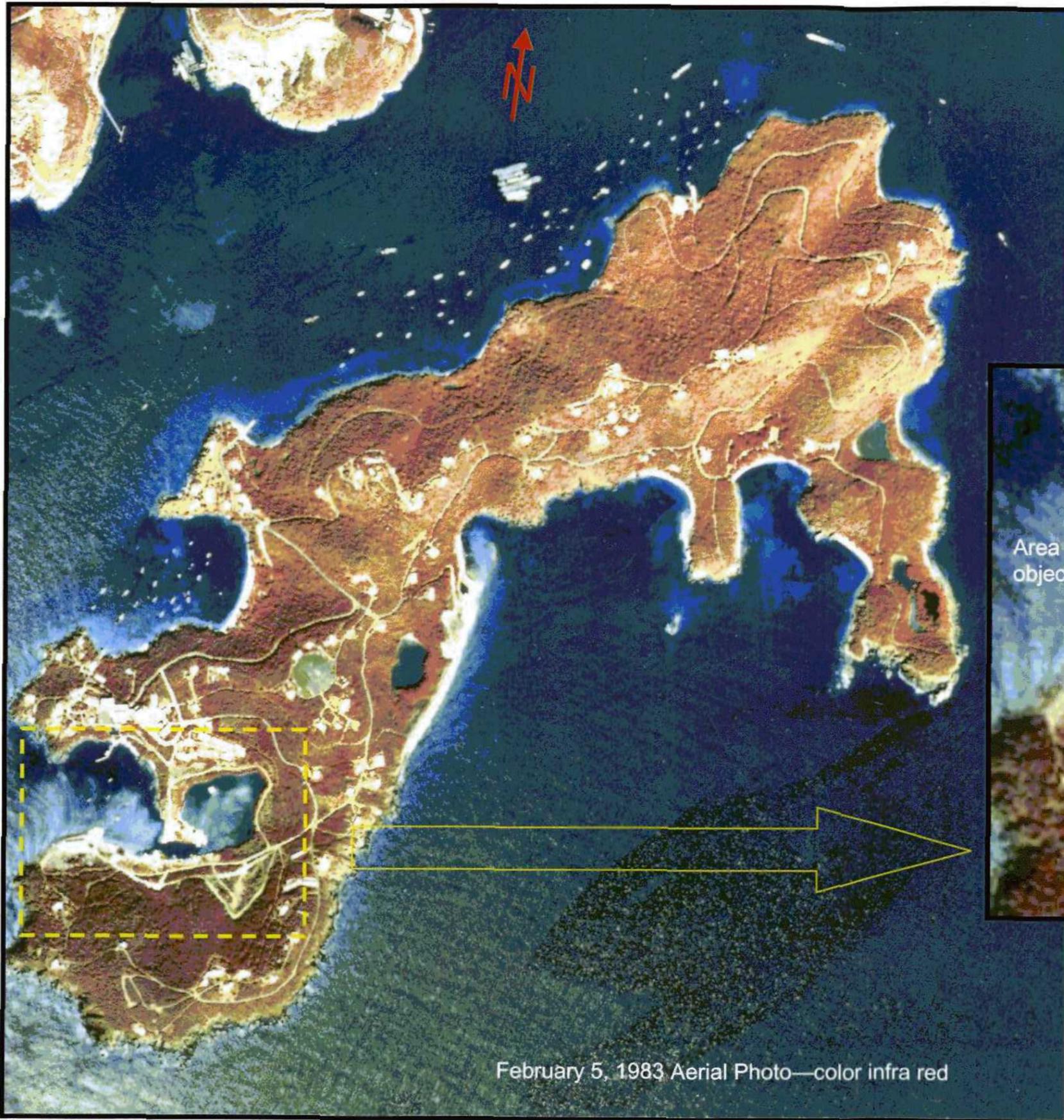
February 7, 1971 Aerial Photo

1971 AERIAL PHOTO OF WATER ISLAND

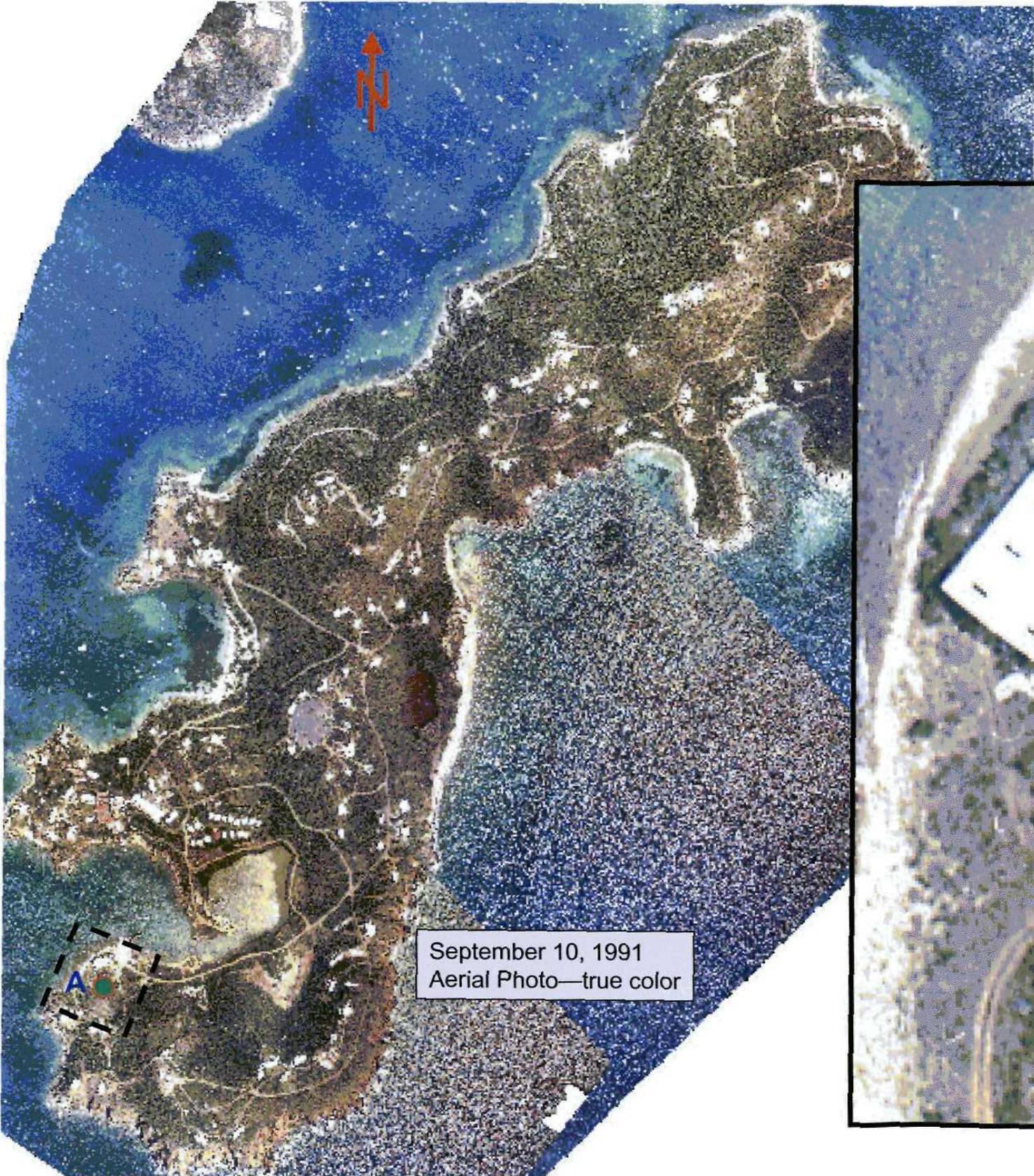


November 21, 1971 Aerial Photo—true color

1983 AERIAL PHOTO OF WATER ISLAND



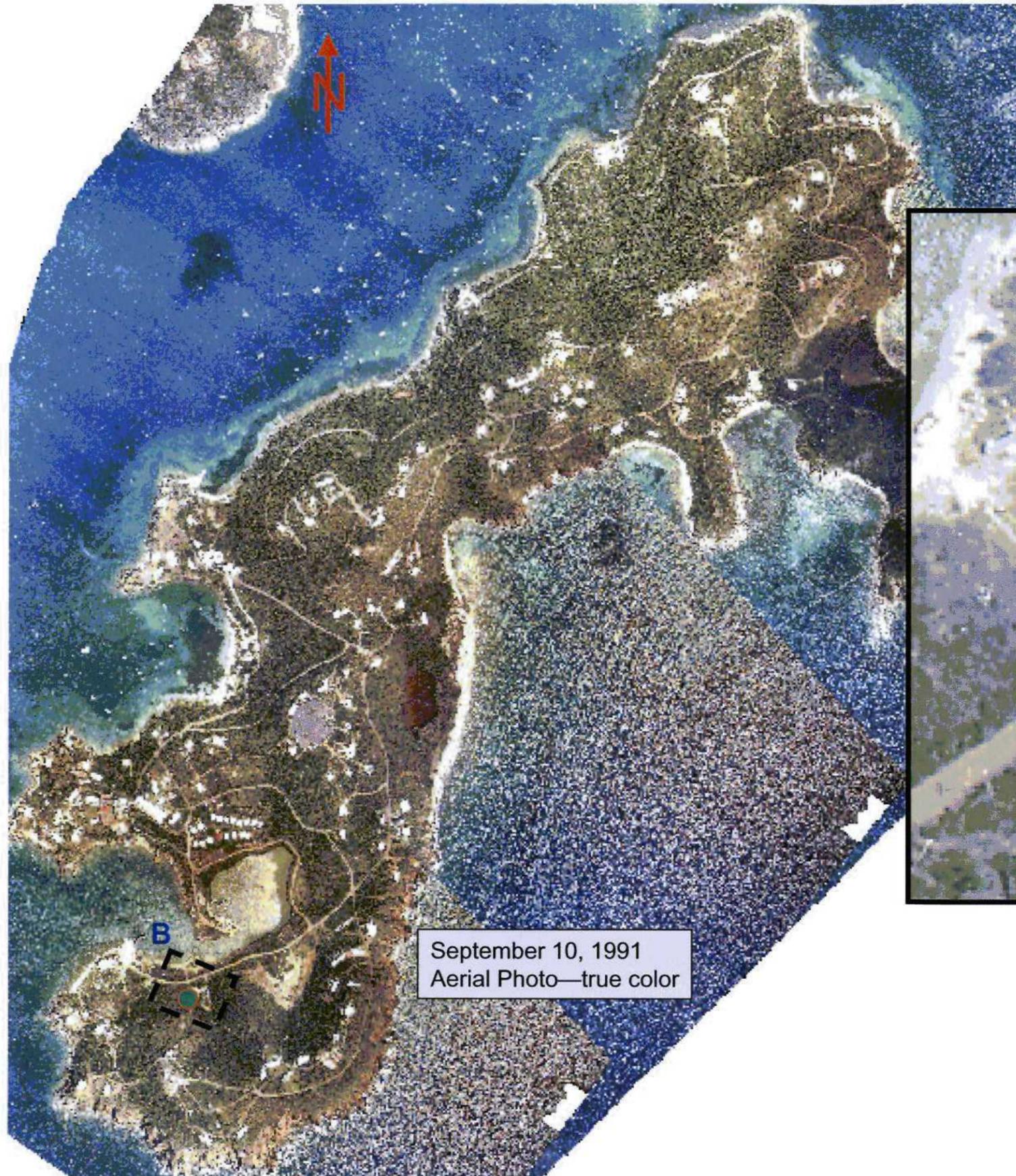
1991 AERIAL PHOTO OF WATER ISLAND



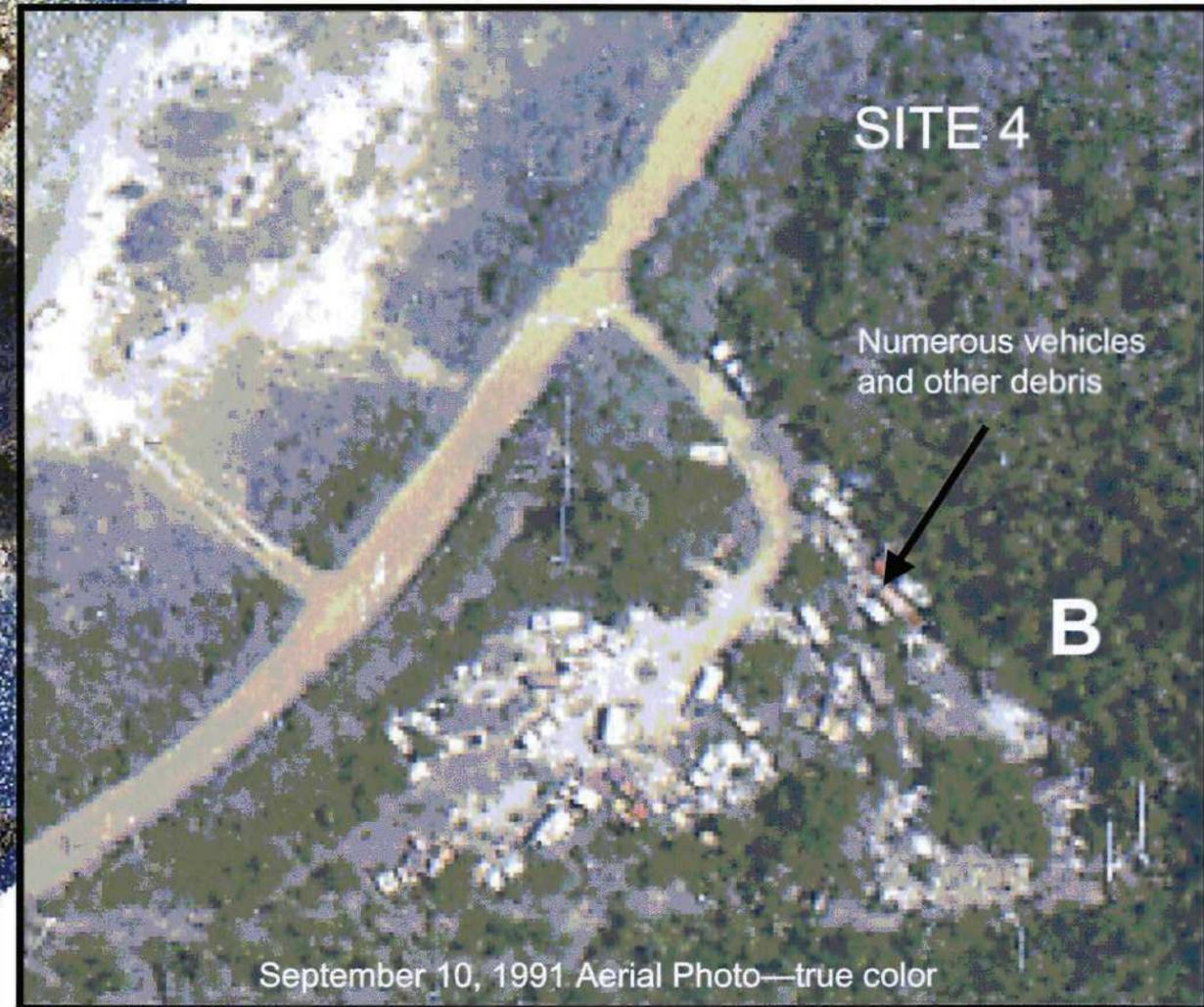
Enlargement of Flamingo Bay Landfill Area



1991 AERIAL PHOTO OF WATER ISLAND



Enlargement of Site 4



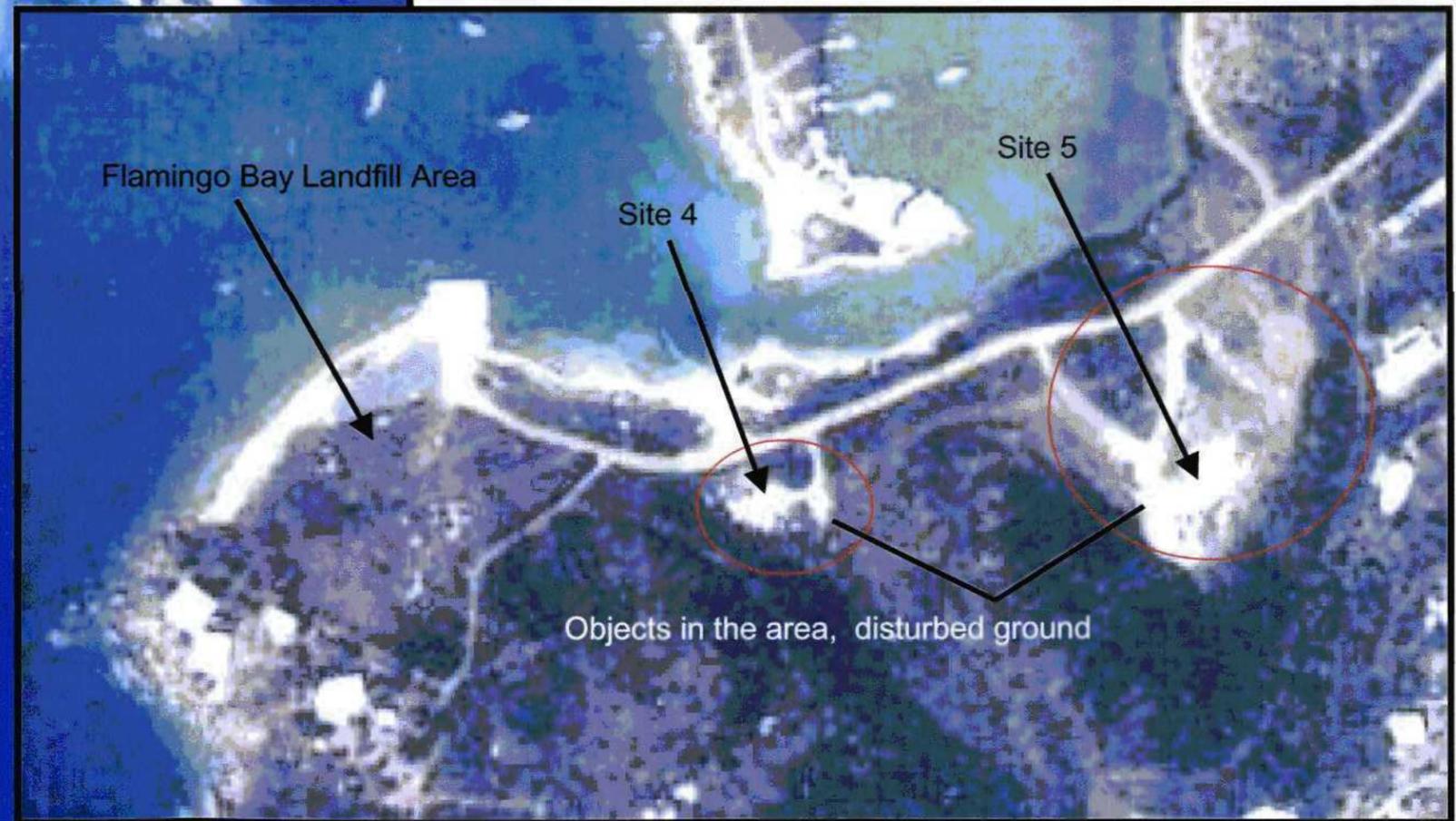
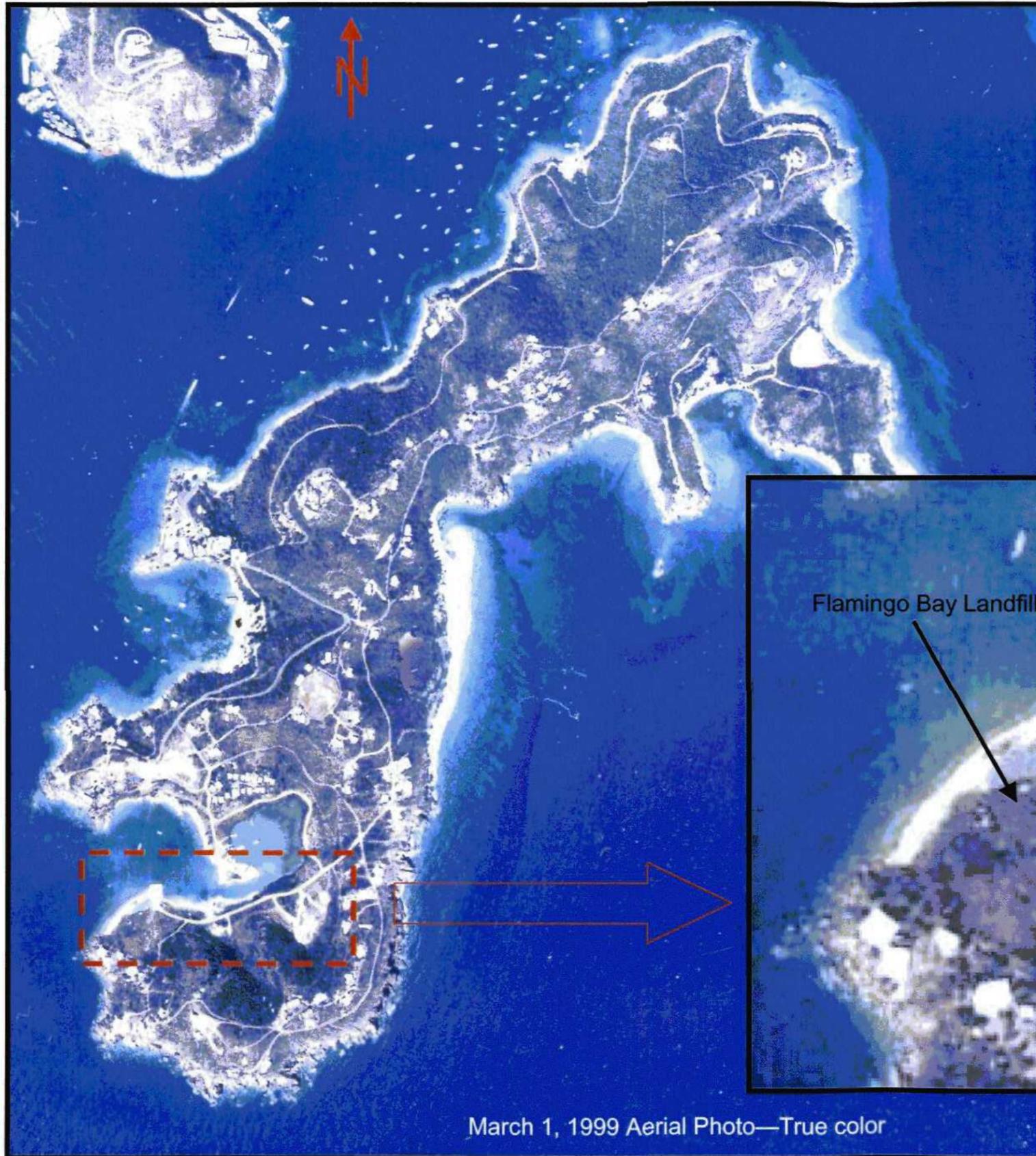
1991 AERIAL PHOTO OF WATER ISLAND



Enlargement of Site 5



1999 AERIAL PHOTO OF WATER ISLAND



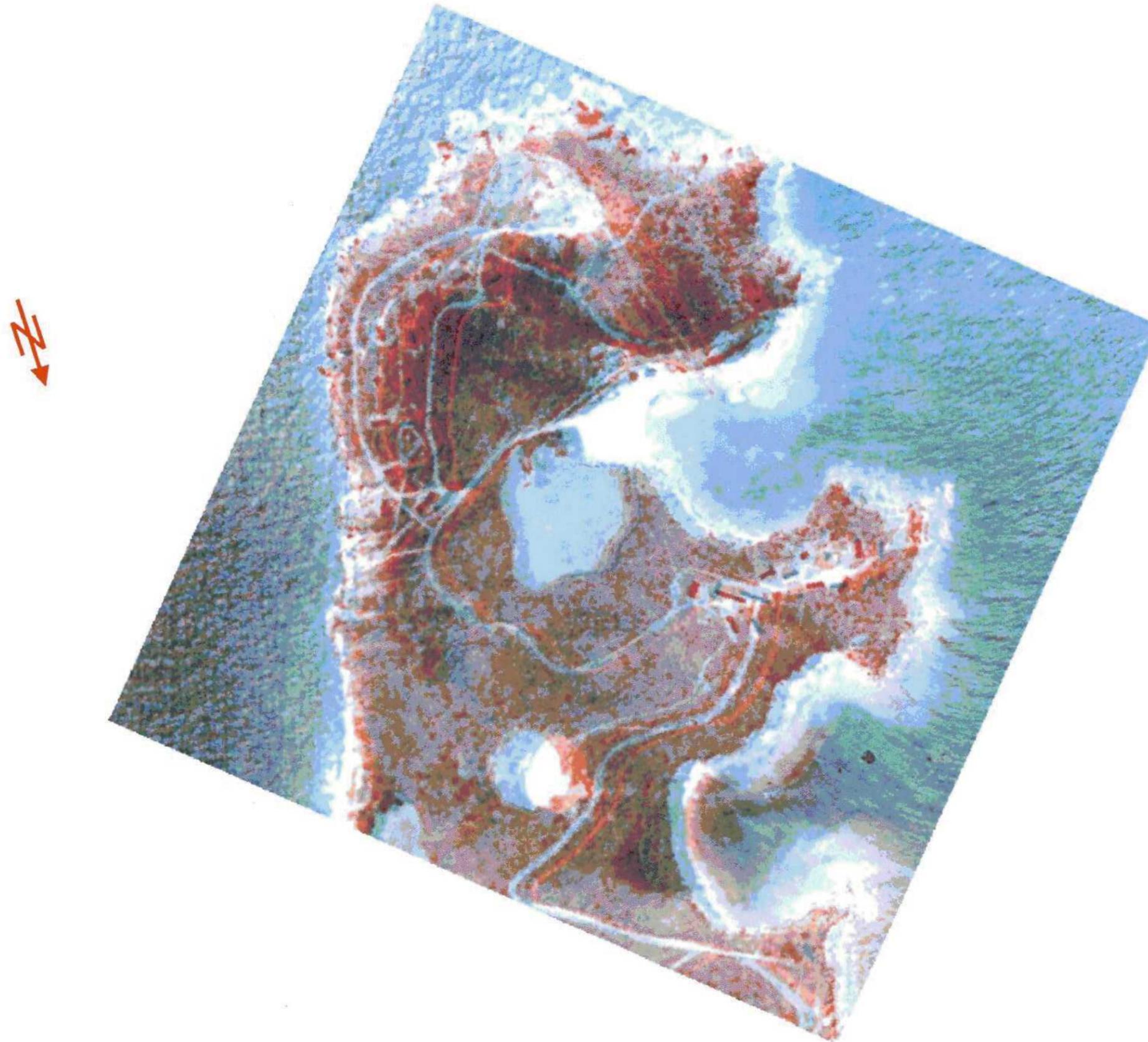
March 1, 1999 Aerial Photo—True color

The following are “3-D” (i.e. anaglyph) aerial photos of the Flamingo Bay area.

The years presented are 1947, 1954, 1971, 1983 and 1991.

“3-D” glasses are required to see the “3-D” effect.

1947 "3-D" AERIAL PHOTO OF FLAMINGO BAY AREA



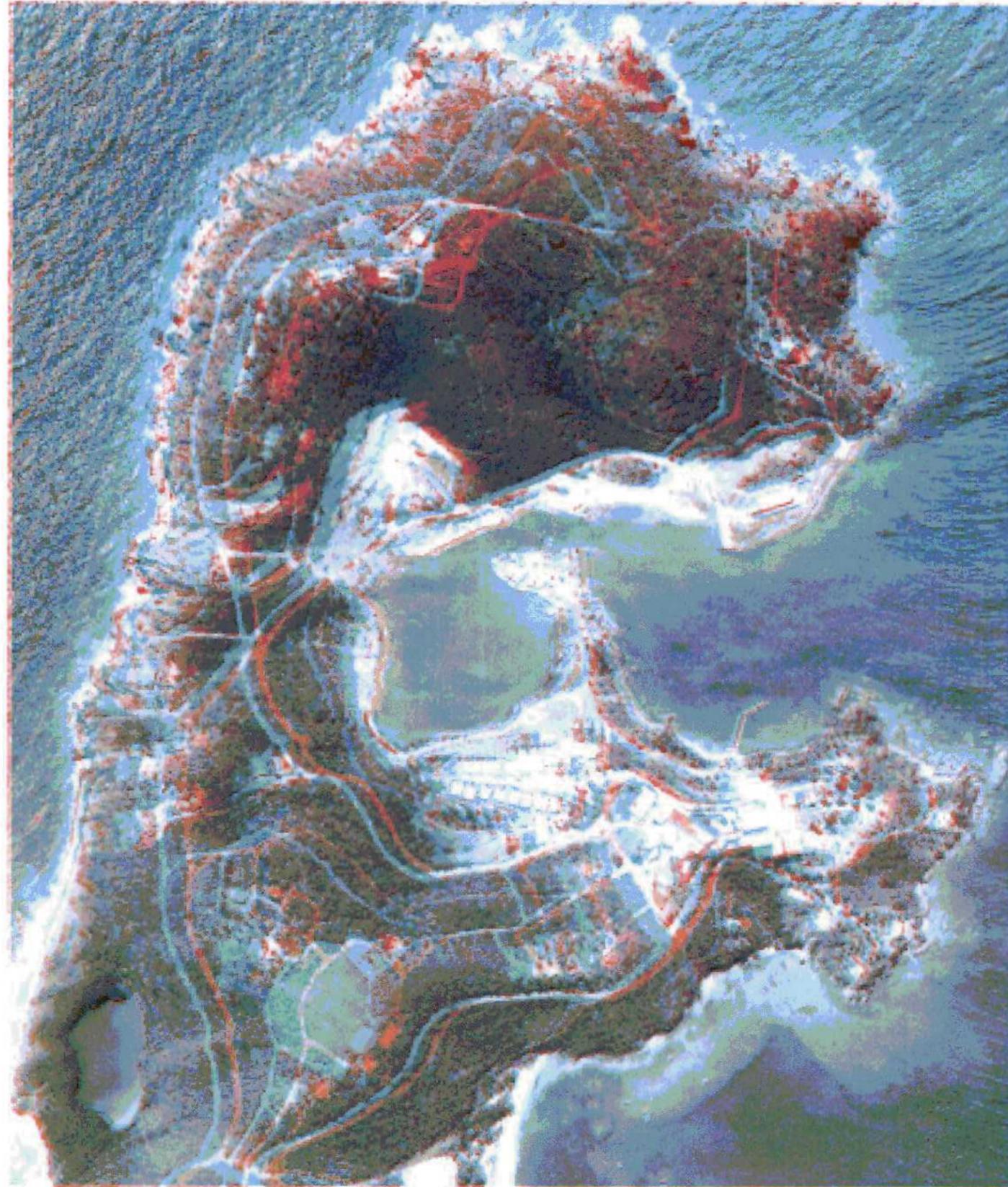
"3-D" glasses required to see 3-D effect.

1954 "3-D" AERIAL PHOTO OF FLAMINGO BAY AREA



"3-D" glasses required to see 3-D effect.

1971 "3-D" AERIAL PHOTO OF FLAMINGO BAY AREA



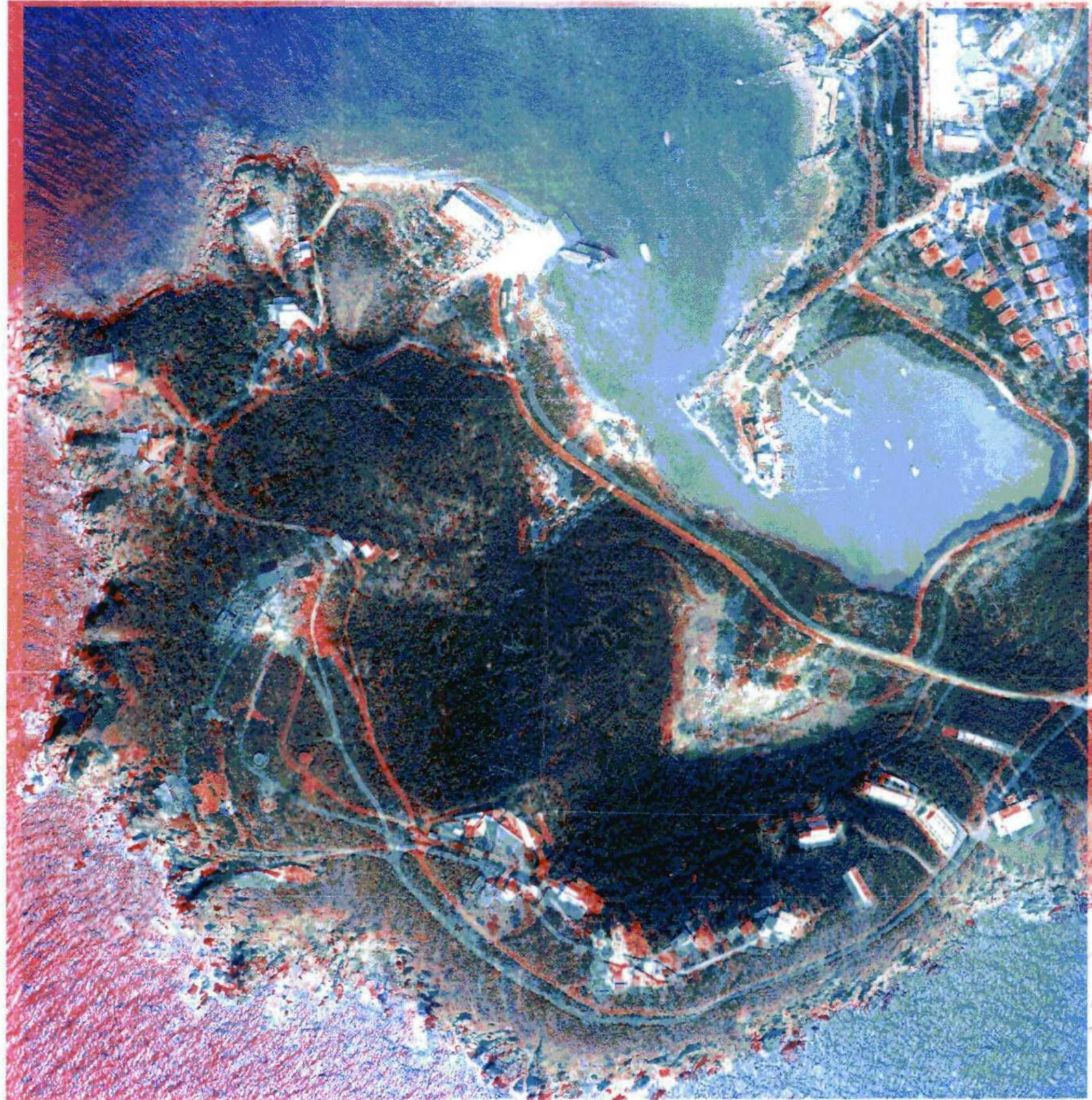
"3-D" glasses required to see 3-D effect.

1983 "3-D" AERIAL PHOTO OF FLAMINGO BAY AREA



"3-D" glasses required to see 3-D effect.

1991 "3-D" AERIAL PHOTO OF FLAMINGO BAY AREA



"3-D" glasses required to see 3-D effect.

Appendix A: Documents found at the National Archives and Records Administration, Northeast Region, 201 Varick Street, New York, New York 10014-4811. Record Group 77, 680.4, San Jose Project, Folder titled “Request of the Virgin Islands Government to use Fort Segarra (Water Island).”

- Figure 1. 29 June 1950 letter to Maj. J.W. Wark, Corps of Engineers, from the Governor of the Virgin Islands, Morris F. de Castro concerning the transfer of Fort Segarra property.
- Figure 2. 18 August 1950 letter to Maj. Gen. Louis A. Pick, Chief of Engineers, U.S. Army, Washington D.C. concerning use of Fort Segarra by the Department of Interior.
- Figure 3. 23 August 1950 letter to Division Engineer, South Atlantic Division, Corps of Engineers, Atlanta, Georgia about use of Fort Segarra property.
- Figure 4. 28 August 1950 letter to Area Engineer, Antilles Area Office, San Juan, Puerto Rico concerning permit for use of Fort Segarra property by the Dept. of Interior.
- Figure 5. 31 August 1950 Army permit to allow use of Fort Segarra property by the Department of Interior (page 1 of 2)
- Figure 6. 31 August 1950 Army permit to allow use of Fort Segarra property by the Department of Interior (page 2 of 2)
- Figure 7. 1 May 1951 letter to Mr. Chapman from Mr. Pesquera concerning development of Fort Segarra to a cottage-type hotel.
- Figure 8. 1947 Map of grazing areas on Water Island—probably the map mentioned in the letter shown in figure 9.
- Figure 9. 25 July, 1951 letter to Mr. Dwight L. Chapman, Engineer Office, San Juan P.R. from Mr. Bernabe Mercado Camacho concerning use of portions of Water Island for grazing.
- Figure 10. 30 July, 1951 letter to Mr. Bernabe Mercado Camacho from Mr. Dwight L. Chapman, Deputy District Real Estate Officer concerning use of portions of Water Island for agricultural purposes.
- Figure 11. 23 December 1952 letter to Chief of Engineers, Washington, D.C. concerning the termination of Fort Segarra permit as of 3 Nov 1952 and transfer to the Department of Interior, Office of Territories.
- Figure 12. 24 December 1952 letter to Office of Territories, Department of Interior, Washington, D.C. concerning the termination of Fort Segarra Military Reservation and Crown Mountain AWS Site, St. Thomas, V.I. permits as of 3 Nov 1952 and transfer to the Department of Interior.
- Figure 13. 31 December 1952 letter to the Hon. Morris F. de Castro, Governor of the Virgin Islands, concerning the termination of Fort Segarra Military Reservation and Crown Mountain AWS Site, St. Thomas, V.I. permits as of 3 Nov 1952 and transfer to the Department of Interior.

GOVERNMENT HOUSE
CHARLOTTE AMALIE
ST. THOMAS
VIRGIN ISLANDS OF THE UNITED STATES

June 29, 1950

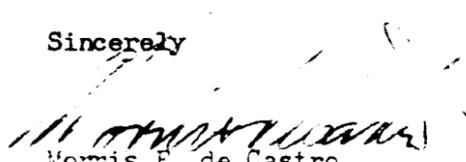
Major J. W. Wark
Corps of Engineers
Area Engineer
San Juan, Puerto Rico

My dear Major Wark:

This is to confirm my telephonic conversation with you of this afternoon. I understand that the San Jose Project will abandon the occupancy of Fort Segarra (Water Island) on July 6. The Government of the Virgin Islands desires to take custody of this property immediately, in view of the fact that we are taking over from the San Jose Project a stock of goats and pigeons which we need to maintain on the island.

I have already made application through the Interior Department for transfer of Fort Segarra to the Government of the Virgin Islands, together with the former Navy Submarine Base property, when abandoned by the San Jose Project. This application may take some time to process. Accordingly, I shall greatly appreciate it if arrangement would be made to permit the Government of the Virgin Islands to take custody of Fort Segarra on a revocable license, beginning July 6, 1950, until such time as the permanent disposition of the property shall have been determined upon. In view of the urgency, I request that this matter be handled with dispatch.

Sincerely


Morris F. de Castro
Governor

COPY

August 18, 1950

Adj. Gen. Louis A. Pick
Chief of Engineers
United States Army
Washington 25, D. C.

My dear General Pick:

It is our understanding that the property known as Ft. Segarra, consisting of 500 acres located on Water Island in St. Thomas Harbor, Virgin Islands, will, with the termination of the San Jose Project on August 20, 1950, no longer be required for use by the Department of the Army.

This Department is very much interested in obtaining this property for use in the conduct of its functions in the Virgin Islands. Therefore, it would be greatly appreciated if arrangements could be made for the Department of the Interior to occupy this property on a permit basis as soon as possible.

The interest of the Department of the Interior in the property has been conveyed to the Secretary of the Army, who advised in his letter dated August 14 that application made to the Office, Chief of Engineers, for a permit covering this property would be properly entertained.

Your early consideration of this application for a permit covering the above described property will be greatly appreciated.

Sincerely yours

/s/ James F. Davis
Director

Fig. 3: 23 August 1950

AIR MAIL

WFO.44
San Jose Project, V.I. (Fort Segarra)
Department of the Interior

23 August 1950

SUBJECT: Permit for Use of Property for Use of Water Island, Fort Segarra

TO: Division Engineer
South Atlantic Division
Corps of Engineers
Atlanta, Georgia

1. Reference is made to the message form of your office dated 16 August 1950 concerning the use of Fort Segarra (Water Island) San Jose Project, Virgin Islands by the Government of the Virgin Islands pending enactment of legislation providing for the transfer of this installation to the Virgin Islands.

2. Disposal action on Fort Segarra will be suspended pending enactment of the proposed legislation.

3. Concerning the intent in use of Fort Segarra by the Virgin Islands, there is no authority under which the Department of the Army may grant such use directly to the Virgin Islands without providing for adequate compensation.

4. The Department of the Interior (Office of Territories) by letter dated 15 August 1950 (copy enclosed) however has made application for the use of the property and it is requested that a permit to that Agency covering the project be prepared and executed by your office. The issuance of an immediate right of entry to the Department of the Interior pending preparation and execution of the permit is authorized. It is recognized that this action is contrary to the instructions contained in teletype 3877 0015 of this office suspending authority to lease or permit excess and surplus property and constitutes an exception thereto.

5. The permit will be prepared in accordance with Reg Form 1302 and will not contain any provision regarding the use to be made of the property by the Department of the Interior.

6. The Office of Territories, Department of the Interior, has been advised of this action.

BY ORDER OF THE CHIEF OF ENGINEERS:
W. H. HASTINGS
Colonel, Corps of Engineers
Assistant Chief of Engineers for Real Estate

1 Incl
13 Aug 50

AIR MAIL

6 See Report of Division Engineer, San Jose Project, V.I.

Fig. 4: 28 August 1950

SABRM 690.4 Dept. of Interior 1st Ind.
San Jose Project, VI
(23 Aug 50)
SUBJECT: Permit for Use of Property for Use of Water Island, Fort Segarra

Office, Div Engr, S&D, Corps of Engrs, Atlanta, Georgia, 23 August 1950

TO: Area Engineer, Antilles Area Office, PO Box 3026, San Juan, Puerto Rico

For necessary action

BY ORDER OF THE DIVISION ENGINEER:

1 Incl
n/c

/s/ B. A. McKinney
B. A. MCKINNEY
Chief, Management and Disposal Branch
Real Estate Division

RECEIVED
DIVISION OF TERRITORIES
SEP 11 1950

GFPred

SABRM 690.4
Antilles Area Office, South Atlantic Division, P.O. Box 3026, San Juan, Puerto Rico, 21 September 1950

TO: Division Engineer, South Atlantic Division, Atlanta, Georgia

1. Enclosed for required distribution are two executed copies and one unexecuted copy of permit granting to the Department of the Interior (Office of Territories) the use of Fort Segarra (Water Island) San Jose Project, St. John, V.I., as directed in basic letter.

2. A copy of the inventory of real and personal property at the subject installation, together with deed record card are attached to each copy of the permit.

3. Local distribution of the permit has been made by this office and an executed copy has been furnished direct to the Department of the Interior, Washington.

FOR THE AREA ENGINEER:

2 Incls
Incl 1 n/c
1 unexecuted copy
Permit (2 executed copy w/ attachments)
(1 unexecuted copy)

WALTER L. CHAPMAN
Deputy Real Estate Officer

Fig. 5: 31 August 1950, page 1 of 2

DEPARTMENT OF THE ARMY

PERMIT TO OTHER FEDERAL GOVERNMENT DEPARTMENT OR AGENCY
TO USE PROPERTY ON FORT SEGARRA (WATER ISLAND) MILITARY
RESERVATION, SAN JOSE PROJECT, ST. THOMAS, V.I.

THE DEPARTMENT OF INTERIOR (Office of Territories) is hereby granted a Permit, revocable at will by the Secretary of the Army, to use Fort Segarra (Water Island) Military Reservation, San Jose Project, St. Thomas, V.I. as shown substantially in red on Exhibit "A", attached hereto and made a part hereof, and described as follows:

"All of that Department of the Army installation known as Fort Segarra (Audited Installation No. 7133) San Jose Project, located in St. Ineras Harbor, St. Thomas, Virgin Islands, comprising 500 acres of land, more or less, together with all real and installed property thereon set forth in inventory attached hereto and made a part hereof as Exhibit "B".

THIS PERMIT is granted subject to the following provisions and conditions:

1. That the term of this permit shall commence on 1 September 1950 and end on 31 August 1955.
2. That the use and occupation of the said premises shall be without cost or expense to the Department of the Army, under the general supervision and subject to the approval of the officer having immediate jurisdiction over the premises, and subject also to such rules and regulations as he may from time to time prescribe.
3. That the permittee shall, at its own expense and without cost or expense to the Department of the Army, maintain and keep in good repair and condition the premises herein authorized to be used.
4. That any interference with or damage to property under control of the Department of the Army incident to the exercise of the privileges herein granted shall be promptly corrected by the permittee to the satisfaction of the said officer.
5. That the permittee shall pay the cost, as determined by the said officer, of production and maintenance and other services furnished by the Department of the Army or through Department of the Army facilities for the use of the permittee.
6. That no additions to or alterations of the premises shall be made without the prior consent of the said officer.

ENG FORM 1332
1 Apr 1949

103 files

Fig. 6: 31 August 1950, page 2 of 2

7. That if for any reason it should be deemed necessary or expedient for the Department of the Army to perform functions and/or render services which are the responsibility of the permittee, the said officer may, in lieu of reimbursement, require the permittee to furnish the personnel and/or materials required for the performance of said functions and/or for the rendering of said service. In addition to furnishing personnel and/or materials, the permittee shall reimburse the Department of the Army for any costs incurred by the Department of the Army in connection with said functions and/or services, such as for supervision and/or equipment furnished. Selection of such personnel will be subject to the approval of the said officer.
8. That, on or before the date of expiration of this permit or its relinquishment by the permittee, the permittee shall vacate the said premises, remove its property therefrom, and restore the premises to a condition satisfactory to the said officer, ordinary wear and tear and damage beyond the control of the permittee excepted. If, however, this permit is revoked, the permittee shall vacate the premises, remove its property therefrom, and restore the premises as aforesaid within such time as the Secretary of the Army may designate.

IN WITNESS WHEREOF I have set my hand this 31st day of August 1950, under the authority of the Secretary of the Army and by direction of the Chief of Engineers.

Dwight L. Chapman
DWIGHT L. CHAPMAN
Deputy Real Estate Officer
Antilles Area Office
South Atlantic Division

Eng Form 1332
1 Apr 49

-2-

Fig. 9: 25 July 1951

Co. Leguillon
 Vieques, P.R.
 July 25, 1951

Mr. Dwight L. Chapman,
 Engineer Office,
 San Juan, P.R.

Dear Sir:

I am referring this letter to you
 hoping you can give me some
 information concerning the particular
 here-in;

I am the man who had Fort
 Segarra Military Reservation (Water Island)
 leased in 1947 for the term of five (5)
 years. It was taken back by the Army
 few months later when I was starting
 to work there. All I had there was lost.

As the place is not being used at
 present by the Army, I wanted to know
 if an opportunity can be given to me in
 leasing some places near the shore as
 shown in ink in the sketch that was sent
 to me at that time and that now is
 enclosed in this letter.

I have marked these places in the
 sketch because are the best for agriculture
 and grazing purposes.

Yours truly,
 Bernabe Mercado Camacho

Fig. 10: 30 July 1951

07 Fed

30 July 1951

G

SAKVA-4



Mr. Bernabe Mercado Camacho
 Co. Leguillon
 Vieques, Puerto Rico

Dear Sir:

Receipt is acknowledged of your letter dated July 25, 1951, by which
 you apply for a lease on certain portions of the Fort Segarra Military
 Reservation, St. Thomas, V. I., for agricultural purposes.

Please be advised that Fort Segarra is now under the control of the
 Municipality of St. Thomas and St. John by virtue of a Department of the
 Army permit to the U. S. Department of the Interior. The property is,
 therefore, not available for outleasing through Department of the Army
 channels.

FOR THE DISTRICT ENGINEER:

Very truly yours,

DWIGHT L. CHAPMAN
 Deputy District Real Estate Officer

Fig. 11: 23 December 1952

AREA ENGINEER, CARIBBEAN AREA
 JACSONVILLE, FLORIDA, DISTRICT
 CORPS OF ENGINEERS, U. S. ARMY
 P. O. BOX 3329, SAN JUAN, P. R.

23 December 1952

Subject: Report of termination of instrument.

THRU: District Engineer, Jacksonville District, Jacksonville, Florida
 Division Engineer, South Atlantic Division, Atlanta, Georgia

TO: Chief of Engineers, U. S. Army, Washington 25, D. C.

You are hereby notified of the termination of the following described instrument in accordance with the terms thereof:

(a) Symbol number:	None
(b) Name and address of grantee:	Department of Interior Office of Territories
(c) Kind of instrument:	Permit
(d) Location:	Fort Segarra (Water Island Mil. Res.) San Jose Project, St. Thomas, V. I.
(e) Effective date of termination:	3 November 1952
(f) How terminated:	Property transferred to grantee pursuant to Public Law 511 - 82nd Congress.
(g) Compliance with conditions of instrument as to vacation, removal of property, and restoration of premises:	

Not required as grantee retained possession
under permanent transfer.

Inclures:

Sigurd C. Vegge
 SIGURD C. VEGGE
 Deputy District Real Estate Officer

Distribution:

General Accounting Office - Audit Division	
Judge Advocate General, Records Branch,	(1 Exec.)
Chief of Engineers, Real Estate,	(1 Exec.)
Division Engineer, Real Estate,	(1 Conf.)
D.E. - Jax Fla. Dist.	(1 Conf.)
Grantee	(1 Exec.)
C.S. Mil. Res.	(2 Conf.)
Area Engr. - Carib Area	(1 Conf.)
Gov. of V. I. - St. Thomas	(1 Conf.)

ENG FORM 1368
 2 JUL 51

887318

Fig. 12: 24 December 1952

CARVA-4

24 December 1952

/epf *(Signature)*

Office of Territories
 Department of the Interior
 Washington, D. C.

Gentlemen:

Inclosed for your information and records are two executed copies of Eng. Form 1368, Report of Termination for Permits granted your department for the use of Fort Segarra Military Reservation (San Jose Project) and Crown Mountain AWS Site, St. Thomas, V. I.

These permits have been terminated by reason of permanent transfer of the installations to your department on 3 November 1952, pursuant to Public Law 511, 82nd Congress.

FOR THE AREA ENGINEER:

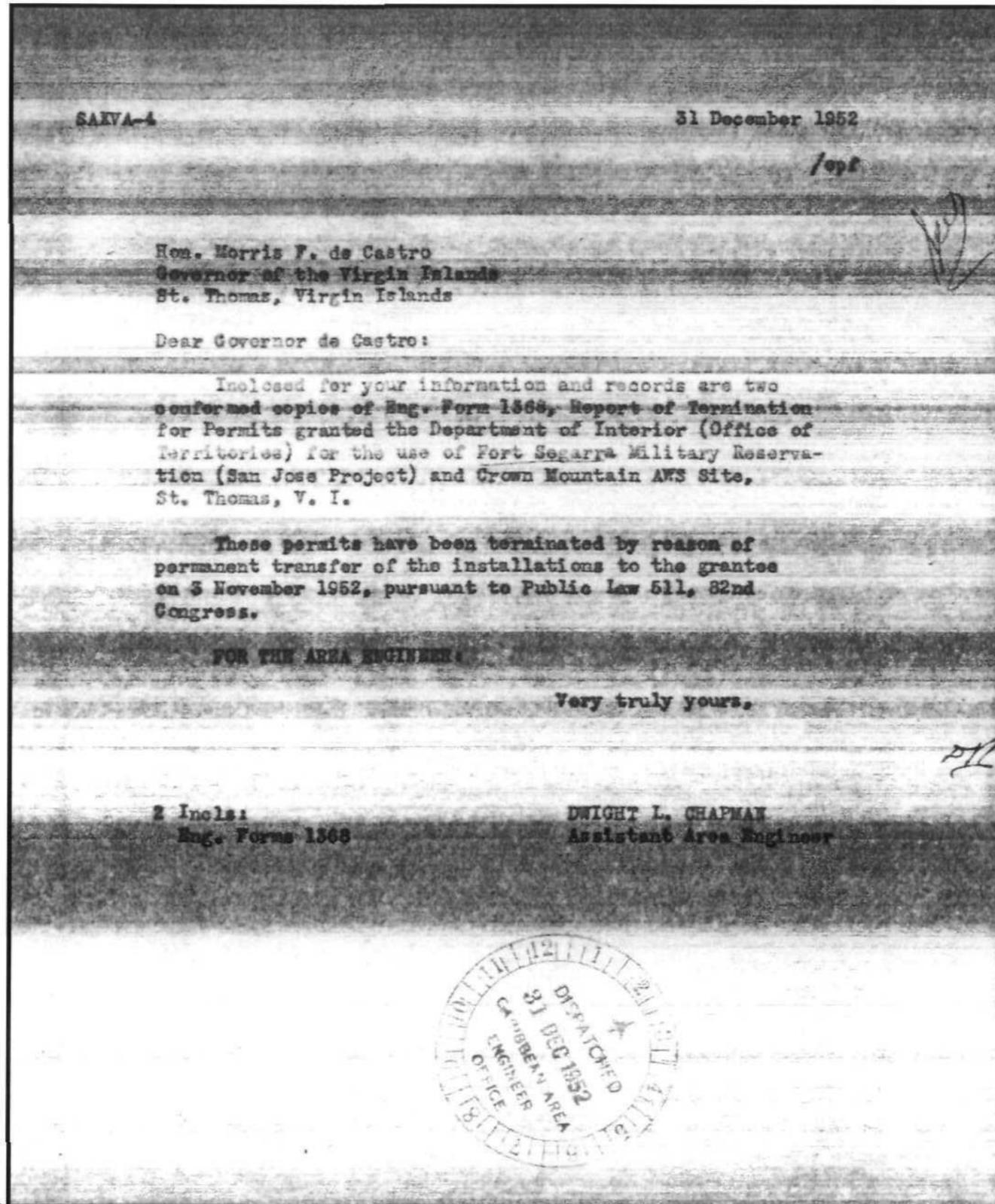
Very truly yours,

(Signature)
 DWIGHT L. CHAPMAN
 Assistant Area Engineer

2 Incls:
 Eng. Forms 1368

DISPATCHED
 21 DEC 1952
 CARIBBEAN AREA
 ENGINEER
 OFFICE

Fig. 13: 31 December 1952



Appendix B: Ground Photos and map with text found at the National Archives and Records Administration, Northeast Region, 201 Varick Street, New York, New York 10014-4811. Record Group 77, 680.4, San Jose Project, Folder titled "Request of the Virgin Islands Government to use Fort Segarra (Water Island).

1. Goat Corral Site, Water Island, 10 November 1948



2. Building No. 29, Water Island, 10 November 1948



US Army Forces Antilles, Signal Corps Photos, 1948.

3. Rear view of building 33, Water Island, 10 November 1948



4. Parking Area, Water Island, 10 November 1948



NOTE: This appears to be a view of the "main area" as identified in the William Wapp photos.

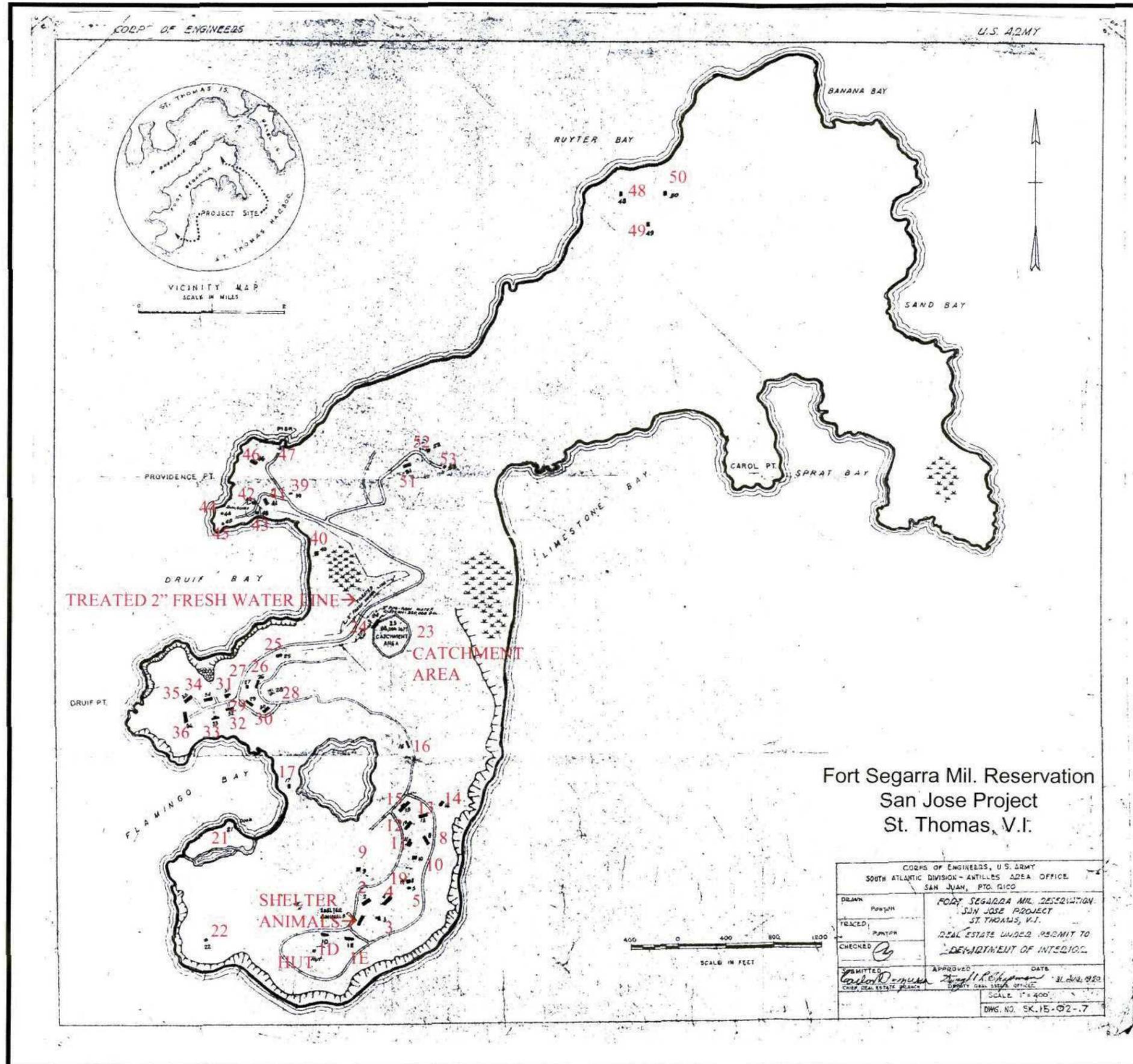
Appendix B

31 August 1950 map of Fort Segarra and Water Island.

Source: National Archives, Northeast Region, 201 Varick Street, New York, New York 10014-4811

Record Group 77, 680.4, San Jose Project.

Following pages have text, which accompanies the map, from the same source.



Appendix B

INVENTORY OF
REAL AND INSTALLED PROPERTY
AT
FORT SEGARRA (WATER ISLAND)
ST. THOMAS, V. I.

To accompany Permit to Dept. of the Interior
(Office of Territories) dated 31 August 1950

UNITED STATES OF AMERICA

BY: *Efrain Muñoz Escalera*
EFRAIN MUÑOZ ESCALERA
Accountable Property Officer
Account No. A-286

DEPARTMENT OF THE INTERIOR

BY: _____
GOVERNOR OF VIRGIN ISLANDS

DESIGNATION AND DESCRIPTION

QUANTITY

CONDITION

BUILDING NO. 2 - BARRACKS: (Incomplete) 22'8" x 96'8", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof. EST. \$9,859.50	1 Ea.	Fair
BUILDING NO. 3 - LATRINE: (Incomplete) 22'8" x 28'8", concrete foundation, concrete floor, concrete block walls, corrugated iron black. EST. \$2,900.50	1 Ea.	Fair
BUILDING NO. 4 - BARRACKS: (Incomplete) 22'8" x 96'8", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof. EST. \$9,359.50	1 Ea.	Fair
BUILDING NO. 8 - BARRACKS: (Incomplete) 22'8" x 96'8", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof. EST. \$9,859.50	1 Ea.	Fair
BUILDING NO. 9 - PUMP HOUSE (Booster) (Incomplete), 8'8" x 9'8", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof. EST. \$420.00	1 Ea.	Fair
BUILDING NO. 10 - B. O. Q. (Incomplete) 22'8" x 48'8", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof. EST. \$4,963.50	1 Ea.	Fair
BUILDING NO. 11 - LATRINE: (Incomplete) 20' x 33'4", concrete foundation, concrete floor, concrete block walls. EST. \$3,001.50	1 Ea.	Fair
BUILDING NO. 12 - ADMINISTRATION & SUPPLY (Incomplete), 22'8" x 96'8", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof. EST. \$9,859.50	1 Ea.	Fair
BUILDING NO. 13 - BARRACKS: & POST ENGR. WAREHOUSE, 22'8" x 96'8", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof. EST. \$10,955.00	1 Ea.	Good
BUILDING NO. 14 - P. X. & RECREATION HALL: (Incomplete), 22'8" x 48'8", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof. EST. \$4,963.50	1 Ea.	Fair
BUILDING NO. 15 - MESS HALL: (Incomplete), 22'8" x 132'8", concrete foundation, concrete floor, concrete block walls. EST. \$15,035.00	1 Ea.	Fair

DESIGNATION AND DESCRIPTION QUANTITY CONDITION

BUILDING NO. 16 - POWER PLANT, 15' x 22'6", concrete foundation, concrete floor, concrete block walls, corrugate iron black roof.
EST. \$1,850.00 1 Ea. Good

A. Non-removable installed property:

- (1) Tank, fuel, 600 gals. (underground) 1 Ea.
- (2) Tank, fuel, 175 gals. 1 Ea.
- (3) Power Unit, 15 KW, Diesel Driven, generator caterpillar, ty Alt, class 3E, 1200RPM, 110V, 3 ph, 60 cy, 104 amp, Ser. No. 15KL655, 1 Ea.
- (4) Engine, diesel driven, caterpillar, Ser. No. 20B6662. 1 Ea.
- (5) Motor, exciting, caterpillar, Ser. No. 15KL655, class, 5118A, 5 KW, 1725 RPM, 32 volts, 15.6 amps. 1 Ea.
- (6) Power Unit, 15 KW, diesel driven, generator, caterpillar ty Alt, class 3E, 1200RPM, 110 volts, 3 ph, 60 cy, 104 amps, Ser. No. 15KL547, Engine diesel driven Ser. No. 20P6172 1 Ea.
- (7) Motor, exciting, caterpillar, class 5118A, 5KW, 1725 RPM, 32 volts, 15.6 amps, Ser. No. 15KL547. 1 Ea.
- (8) Sink, porcelain, large, #10614 1 Ea.
- (9) Generator set, portable, diesel eng. 120/208V, 60 cy, caterpillar, model 34-15S, motor #3R-6952SP, Ser. No. 15SL-455, Ident. #CE1248, 15 KW 1 Ea.

B. Removable installed property:

- (1) Extinguisher, fire, CO₂, 15 lbs. 2 Ea.
- (2) Pump, hand, Ser. No. 770 1 Ea.

BUILDING NO. 17 - PUMP HOUSE, 13'4" x 21'4", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof.
EST. \$1,420.00 1 Ea. Good

A. Non-removable installed property:

- (1) Pump, piston, gasoline engine, Mod. 11CA, Ser. #WH1812, motor #204-30, 125 GPM, Unit #46766, Unit Mod. AHUUV, 56301-B 1 Ea.

BUILDING NO. 19 - MAGAZINE, (Dynamite & Cap House), 8' x 10', cement & stone foundation, concrete floor, cement & stone walls, cement & stone roof.
EST. \$400.00 1 Ea. Good

BUILDING NO. 22 - SEARCH LIGHT SHELTER, 14' x 21'4", concrete foundation concrete floor, corrugated G.I. roof.
EST. \$1,495.00 1 Ea. Good

BUILDING NO. 26 - PIGEON LOFT, 22'8" x 96'6", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof.
EST. \$10,955.00 1 Ea. Good

DESIGNATION AND DESCRIPTION QUANTITY CONDITION

BUILDING NO. 27 - CHLORINATOR HOUSE: 5'6" x 7'6", concrete foundation, concrete floor, concrete block walls, concrete roof.
EST. \$265.00 1 Ea. Good

A. Non-removable installed property:

- (1) Tank, water, 30 gals. cap. 1 Ea.
- (2) Motor, water, Trident Ser. #6624867 1 Ea.
- (3) Hypochlorinator, Ser. No. N-4425 1 Ea.
- (4) Pump, water, elec. #25 1 Ea.
- (5) Motor, elect. 1 ph, Model 5K45AV-1025AX, ty. LC 172SRPM, 115V, 1/6 HP, 2.9 amp. 60 cy. GEJ #434, Ser. No. 842. 1 Ea.

BUILDING NO. 28 - THEATER OR MOVIE BOOTH: 10' x 10', concrete foundation, concrete floor, concrete block walls, concrete roof.
EST. \$500.00 1 Ea. Good

BUILDING NO. 29 - MESS HALL: 22'8" x 160'8", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof.
EST. \$18,210.00 1 Ea. Good

A. Non-removable installed property:

- (1) Tank, hot water, 82 gal. 1 Ea.
- (2) Sink, galv. steel, 2 compartment, 28" x 55" 1 Ea.
- (3) Sink, galv. steel 2 compartment, 26" x 108" 1 Ea.

B. Removable installed property:

- (1) Extinguisher, fire, foam ty. 2 Ea.

BUILDING NO. 30 - P. I. & RECREATION HALL: 22'8" x 84'8", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof.
EST. \$9,595.00 1 Ea. Good

A. Non-removable installed property:

- (1) Sink, kitchen, 2' x 4' single compartment, w/drain boards 1 Ea.

B. Removable installed property:

- (1) Extinguisher, fire, water ty, 4 gal. 2 Ea.

BUILDING NO. 31 - LATRINE: 22'8" x 40'8", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof.
EST. \$4,610.00 1 Ea. Good

A. Non-removable installed property:

- (1) Urinals 10 Ea.
- (2) Bowls, toilet 12 Ea.
- (3) Tank, water closet 12 Ea.
- (4) Lavatories, porcelain 12 Ea.
- (5) Steel tank, oil, 1000 gals. 1 Ea.
- (6) Heater, elect. water, Mod. #175, Ser. No. 4225, 1/8 HP. 1 Ea.
- (7) Motor, elect. ty. SSD18, model 7P2667, 1/6 HP 1 Ea.
- (8) Burner, oil, model B1-12, 60 cy, 110V, Ser. No. Q2871338. 1 Ea.

DESIGNATION AND DESCRIPTION	QUANTITY	CONDITION
Bldg. #31 installed property continued.		
9. Mercoid, pyrethrum ty. JM1, group 2, unit single	1 Ea.	
10. Tank, water, steel, 600 gals.	1 Ea.	
11. Transformer, ignition, Ser. #509918	1 Ea.	
B. Removable installed property:		
(1) Extinguisher, fire, foam type	3 Ea.	
BUILDING NO. - 32 SUPPLY & OFFICE, 22'8" x 84'8", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof. EST. \$9,595.00	1 Ea.	Good
A. Removable installed property:		
(1) Extinguisher, foam type, 2-1/2 gal. (NOTE: On pole next to Bldg.)	3 Ea.	
BUILDING NO. 33 - B. O. Q., 22'8" x 48'8", concrete foundation, concrete floor, concrete block walls, corrugate iron black roof. EST. \$5,515.00	1 Ea.	Good
A. Non-removable installed property:		
(1) Lavatories, porcelain	2 Ea.	
(2) Bowl, toilet	1 Ea.	
(3) Tank, water closet	1 Ea.	
B. Removable installed property:		
(1) Extinguisher, fire, water ty.	2 Ea.	
(2) Extinguisher, fire, foam ty. (NOTE: ON POLE NEXT TO BLDG.)	3 Ea.	
BUILDING NO. 34 - BARRACKS, 22'8" x 96'8", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof. EST. \$13,955.00	1 Ea.	Good
A. Non-removable installed property:		
(1) Sink, steel, galv. 2 compartments 2' x 4'	1 Ea.	
B. Removable installed property:		
(1) Extinguisher, fire, foam ty. (NOTE: On pole next to Bldg.)	3 Ea.	
BUILDING NO. 35 - BARRACKS, 22'8" x 96'8", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof. EST. \$10,955.00	1 Ea.	Good
BUILDING NO. 36 - BARRACKS, 22'8" x 96'8", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof. EST. \$10,955.00	1 Ea.	Good

DESIGNATION AND DESCRIPTION	QUANTITY	CONDITION
BUILDING NO. 40 - PUMP HOUSE, 8'8"x9'4", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof. EST. \$405.00	1 Ea.	Good
BUILDING NO. 41 - BARRACKS, 22'8"x96'8", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof. EST. \$10,955.00	1 Ea.	Good
BUILDING NO. 42 - LATRINE, 20'x24'8", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof. EST. \$2,465.00.	1 Ea.	Good
A. Non-removable installed property:		
(1) Tank, water, steel, 600 gals.	1 Ea.	
(2) Urinals	3 Ea.	
(3) Lavatories, porcelain	5 Ea.	
(4) Bowls, toilet	5 Ea.	
(5) Heater, elect. water, mod. #175, Ser. No. 4220	1 Ea.	
(6) Tank, oil, steel, 1000 gals.	1 Ea.	
BUILDING NO. 43 - RECREATION HALL, 22'8"x24'8", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof. EST. \$2,795.00.	1 Ea.	Good
BUILDING NO. 46 - SEARCH LIGHT SHELTER, 13'4"x26'8", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof. EST. \$1,780.00.	1 Ea.	Good
BUILDING NO. 51 - BARRACKS, COMB. MESS & REC. & LAT., (Incomplete), 22'8"x96'8", concrete foundation, concrete floor, concrete block walls (no roof) EST. \$9,859.00.	1 Ea.	Poor
BUILDING NO. 52 - POWER PLANT (Incomplete), 16'x22'8", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof. EST. \$1,815.00.	1 Ea.	Fair
BUILDING NO. 53 - BASE END STATION, 13'5"x13'5", concrete foundation, concrete floor, concrete block walls, concrete roof. EST. \$15,000.00.	1 Ea.	Good
BUILDING NO. (Unknown) - GASOLINE STORAGE DUMP, Dirt floor, wood walls, corrugated metal roof. No Cost.	1 Ea.	Fair
A. Removable installed property:		
(1) Extinguisher, fire, foam ty	3 Ea.	
(2) Extinguisher, fire, CO2, 15 lbs.	1 Ea.	
BUILDING NO. 1 - HUTMENT, 16'x16', wood floor, wood walls, wood & felt roof. No Cost.	1 Ea.	Poor

DESIGNATION AND DESCRIPTION	QUANTITY	CONDITION
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ELECTRICAL DISTRIBUTION SYSTEM, OVERHEAD AND SERVICES:

A. Removable installed property:

(1) Transformer, 15KVA, Ser. Nos. 6956449, 6876143, 6874298.	3 Ea.	
(2) Transformer, 7.5KVA, Ser. Nos. 6962074	1 Ea.	
(3) Transformer, 3KVA, Ser. No. 6824352	1 Ea.	
(4) Transformer, 10KVA, Ser. No. 6715646	1 Ea.	
(5) Transformer, 5KVA, Ser. No. 3037066	1 Ea.	
(6) Transformer, 3KVA, Ser. No. 6823347	1 Ea.	

STRUCTURE NO. 1-D Part of Fortification, TANK, fuel oil, EST. \$85,000.00. 1 Ea. Unknown

STRUCTURE NO. 1-E - TANK, water. EST. \$75,000.00 1 Ea. Unknown

STRUCTURE NO. 5 - TOWER, steel construction EST. \$75,000.00 1 Ea. Good

STRUCTURE NO. 21 - DOCK, foundation concrete and steel piles, 60'x75'. EST. \$15,000.00 1 Ea. Good

STRUCTURE NO. 23 - CATCHMENT AREA, concrete and asbestos composition, 90,000 sq. ft. EST. \$60,000.00. 1 Ea. Good

STRUCTURE NO. 24 - CISTERN, Fresh Water, concrete construction, 250,000 gals. EST. \$30,000.00. 1 Ea. Good

STRUCTURE NO. 25 - CISTERN; Sea Water, concrete foundation, concrete floor, concrete roof, 28'x11', 16,170 gals. cap. EST. \$35,000.00. 1 Ea. Good

STRUCTURE NO. 39 - CISTERN, Sea Water, stone, brick & concrete construction, 20' x 14' x 39', 81,900 gals. cap. EST. \$35,000.00. 1 Ea. Good

STRUCTURE NO. 44 - EMPLACEMENT (40 mm), concrete foundation, concrete block floor, concrete block walls. EST. \$1,200.00. 1 Ea. Good

STRUCTURE NO. 45 - EMPLACEMENT (40 mm), foundation concrete, floor concrete, walls concrete. EST. \$1,200.00 1 Ea. Good

STRUCTURE NO. 47 - DOCK, Army Pier, wood construction, piles & concrete, 12'6" x 140'. EST. \$8,000.00. 1 Ea. Good

STRUCTURE NO. 48 - IGLOO (Ammunition Dump), 25' x 40', foundation concrete, floor concrete, walls concrete, roof concrete. EST. \$15,000.00. 1 Ea. Good

STRUCTURE NO. 49 - IGLOO (Ammunition Dump), 25' x 40', foundation concrete, floor concrete, walls concrete, roof concrete. EST. \$15,000.00. 1 Ea. Good

STRUCTURE NO. 50 - IGLOO (Incomplete), 25' x 40', foundation concrete, floor concrete, walls, none. EST. \$15,000.00. 1 Ea. Poor

DESIGNATION AND DESCRIPTION	QUANTITY	CONDITION
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SHELTER: Animals, 16' x 100', wood construction. 1 Ea. Good

FENCE: Chain Link, pipe post.
Lgth. 950'
Hght. 6'
Barbed Wire:
Lgth. 2340'
Post 73 ea. Good

ROADS: Bitumuli, low type 15,000 Sq.Yds. Good
EST. \$45,000.00

ROADS: Misc., Gravel 25,000 Sq.Yds. Good
EST. \$50,000.00

WATER DISTRIBUTION SYSTEM, MAINS & SERVICES:

Mains	6,000 ft.	Unknown
Service lines	6,500 ft.	"
" "	1,340 ft.	"

EST. \$43,000.00.

ELECTRIC DISTRIBUTION SYSTEM, OVERHEAD LINES & SERVICES:

Overhead lines	5,000 ft.	Good
" Services	1,000 ft.	"
Transmission Lines	5,000 ft.	"

EST. \$17,000.00.

SEWER SYSTEM:

Sanitary Sewer Mains (incomplete)	1,500 ft.	Unknown
" House Laterals	500 ft.	"

EST. \$66,000.00.

LAND -
COST: \$10,000.00. 500 Acres Good

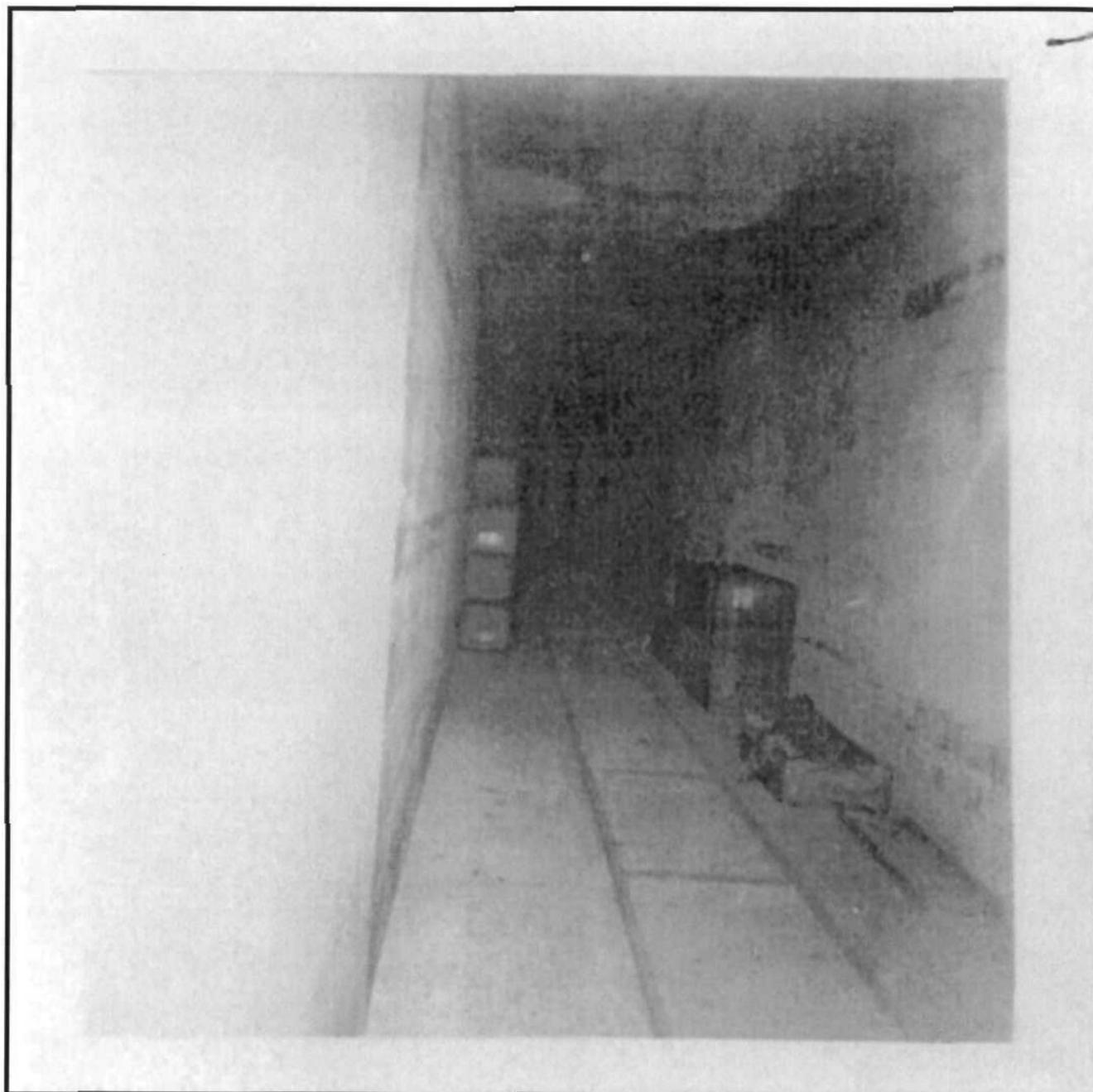
SIGNAL INSTALLED PROPERTY

<u>DESIGNATION AND DESCRIPTION</u>	<u>QUANTITY</u>	<u>CONDITION</u>
Water Island Communications Network		
Cable, Armoured Covered, Submarine	2100 Ft.	Fair
Cable, 11 pair, Jute Covered	880 Ft.	Fair

Appendix B

Source: National Archives, Northeast Region, 201 Varick Street, New York, New York 10014-4811
Record Group 77, 680.4, San Jose Project.

Appendix C: Historical ground photos by William Wapp, circa 1950. Photographs and captions by William Wapp, as edited by David G. Anderson and Emily M. Yates. SOURCE: *Water Island Archeological Project*, National Park Service, Anderson, McCarthy and Yates, 1998. Data provided by Ms. Emily Yates of the Southeast Archeological Center, National Park Service, 2035 E. Paul Dirac Drive, Box 7, Johnson Building, Suite 120, Tallahassee, Florida 32310. December 2000.



Wapp01: Possible munitions in underground bunker complex at Fort Segarra. The caption reads "Munitions in underground fort."

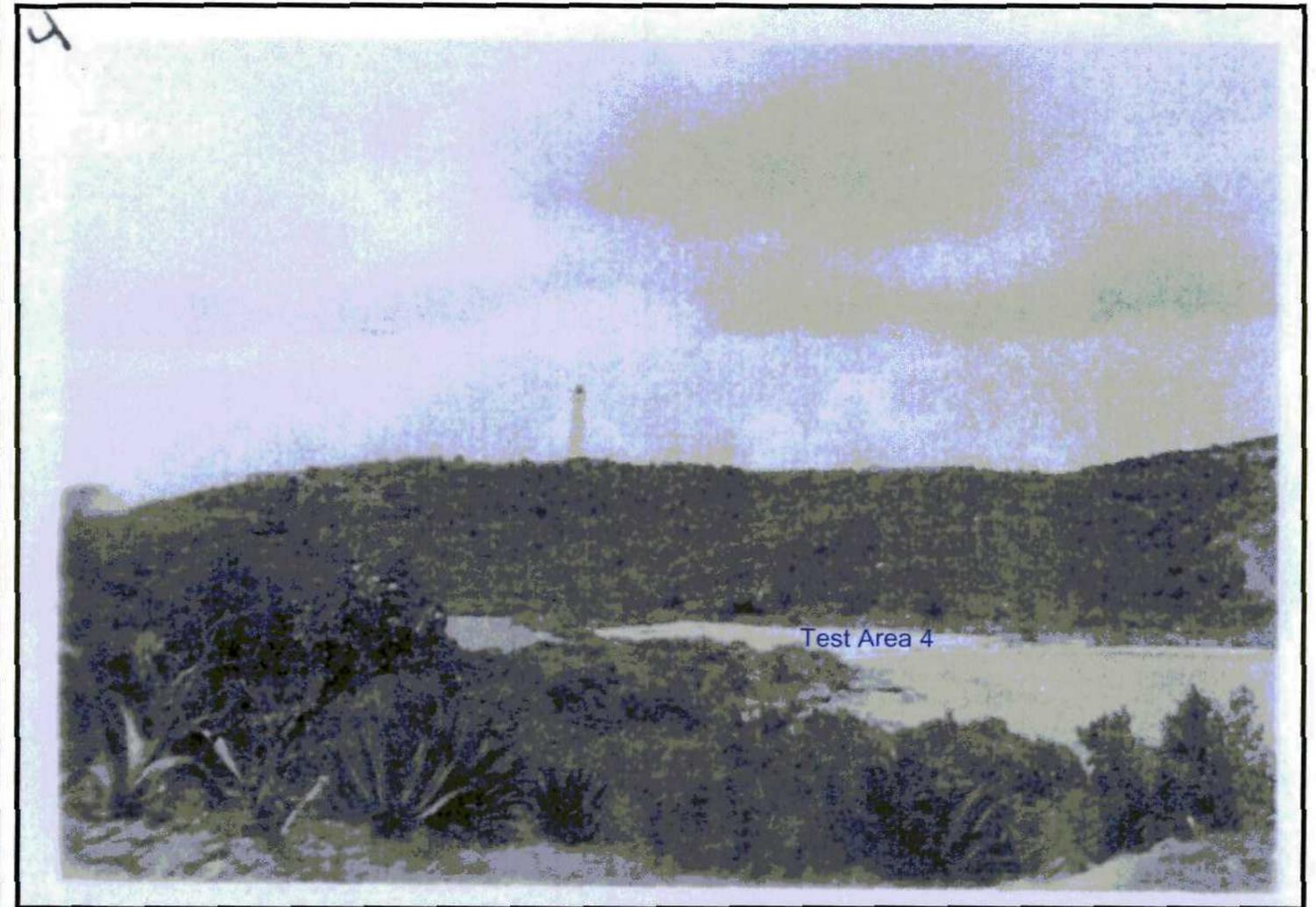


Wapp02: "Steps leading up to building where we showered (after tests). Lower building was our office and briefing area – far right, main area – vehicles & building with bombs."

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Wapp 03 "Another angle of picture #2 – but showing you buildings on right used for staging area, prior to tests."



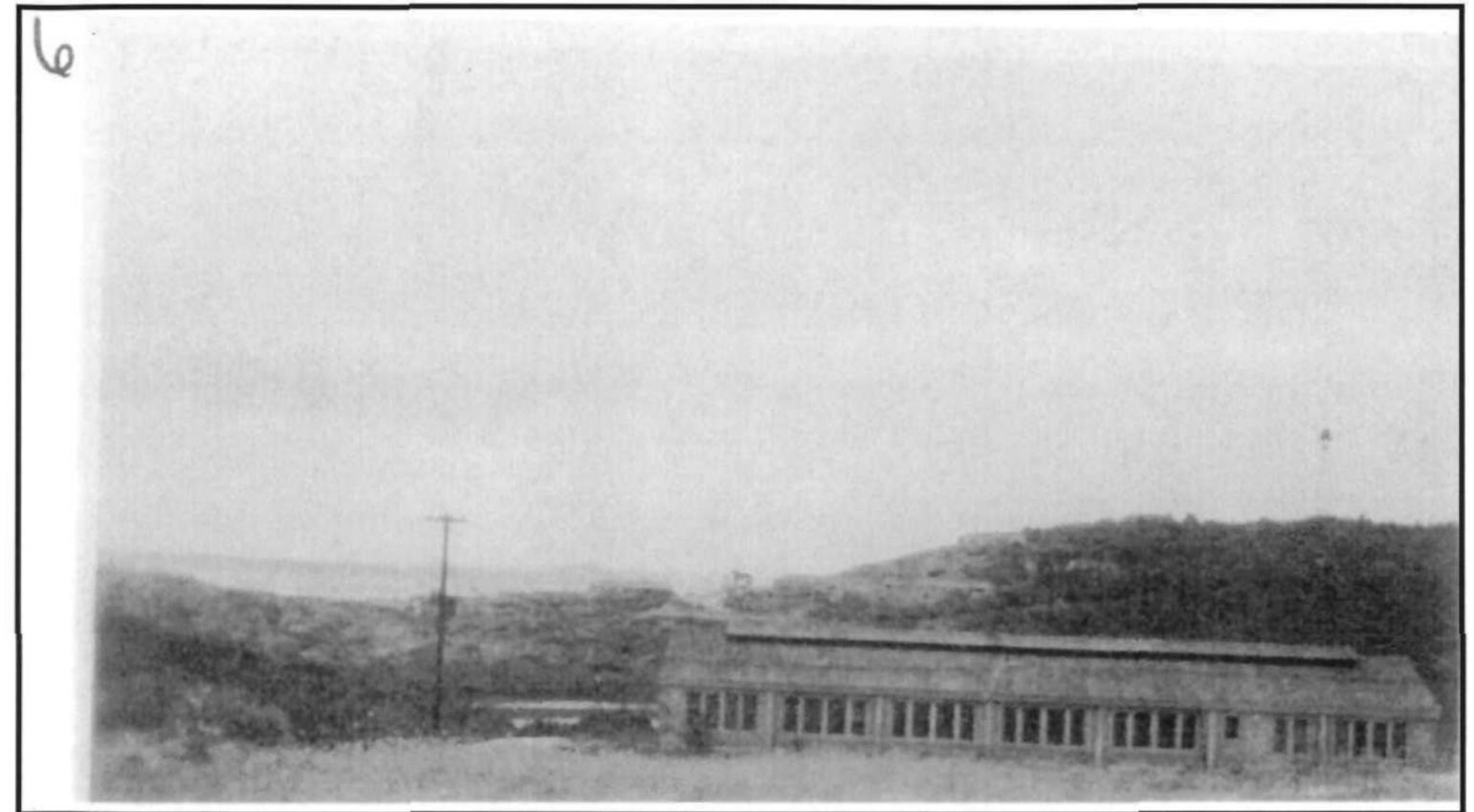
Wapp 04 "Shot from top of main area – looking down to test site – that beach was removed. Note tower in background. Climbed it a few times."

Comments/notes inside the pictures are by TEC.

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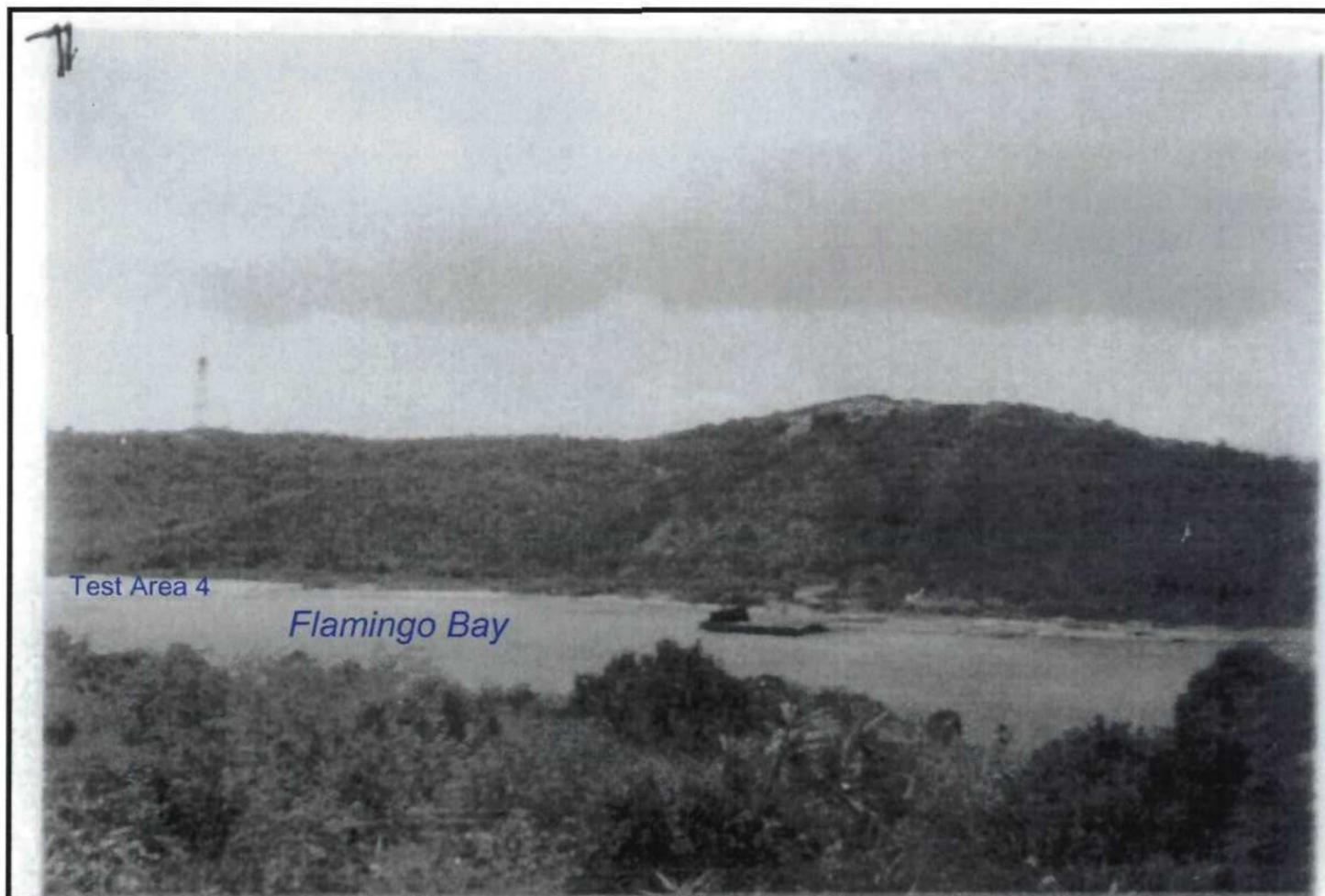


Wapp 05 "Closer view of main area – those are 1 ton containers you see, on upper right. Filled with various chemical gases."

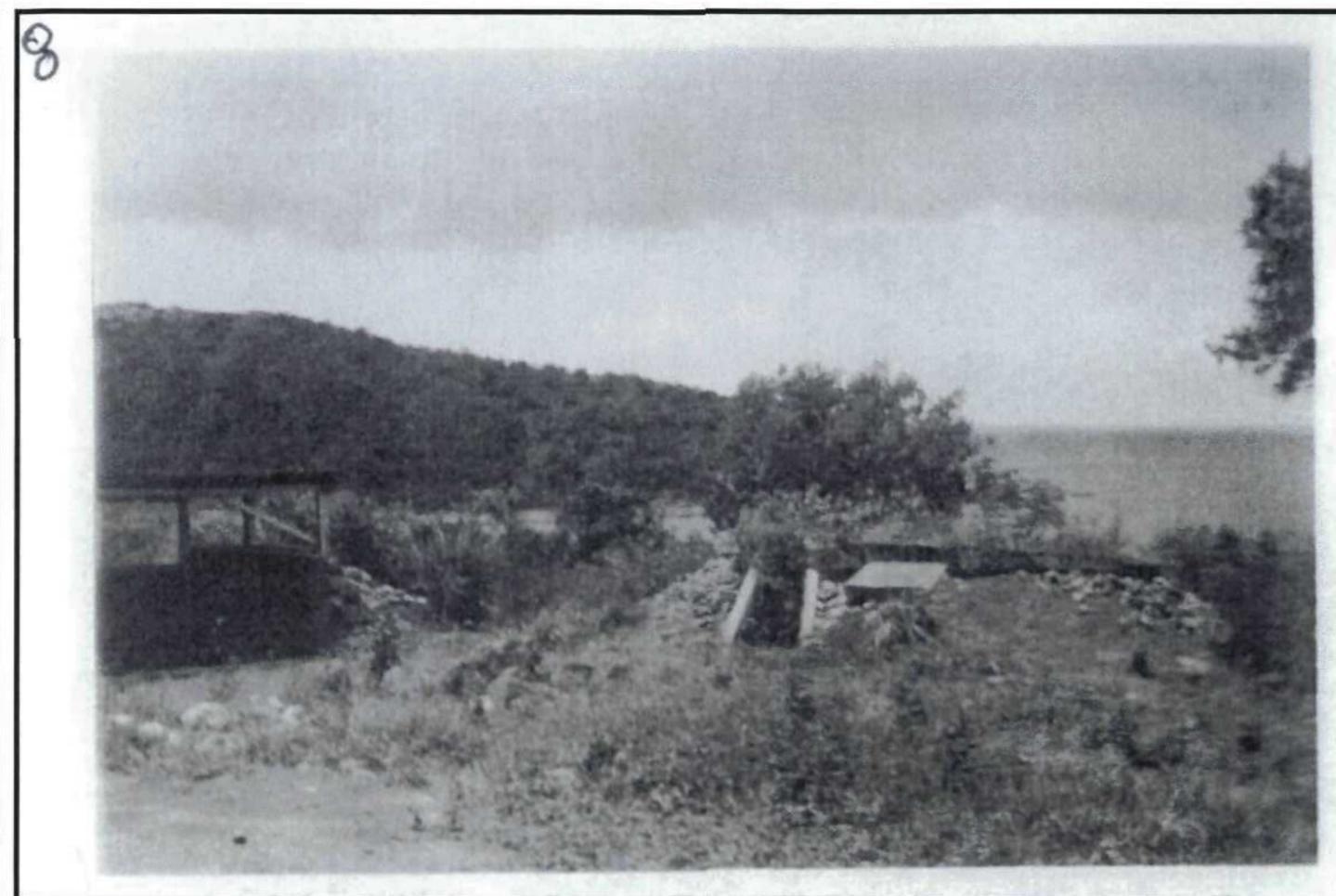


Wapp 06 "This is one of the buildings we had hay stored in, for the goats. Notice all the other building[s] in the background – some were left empty."

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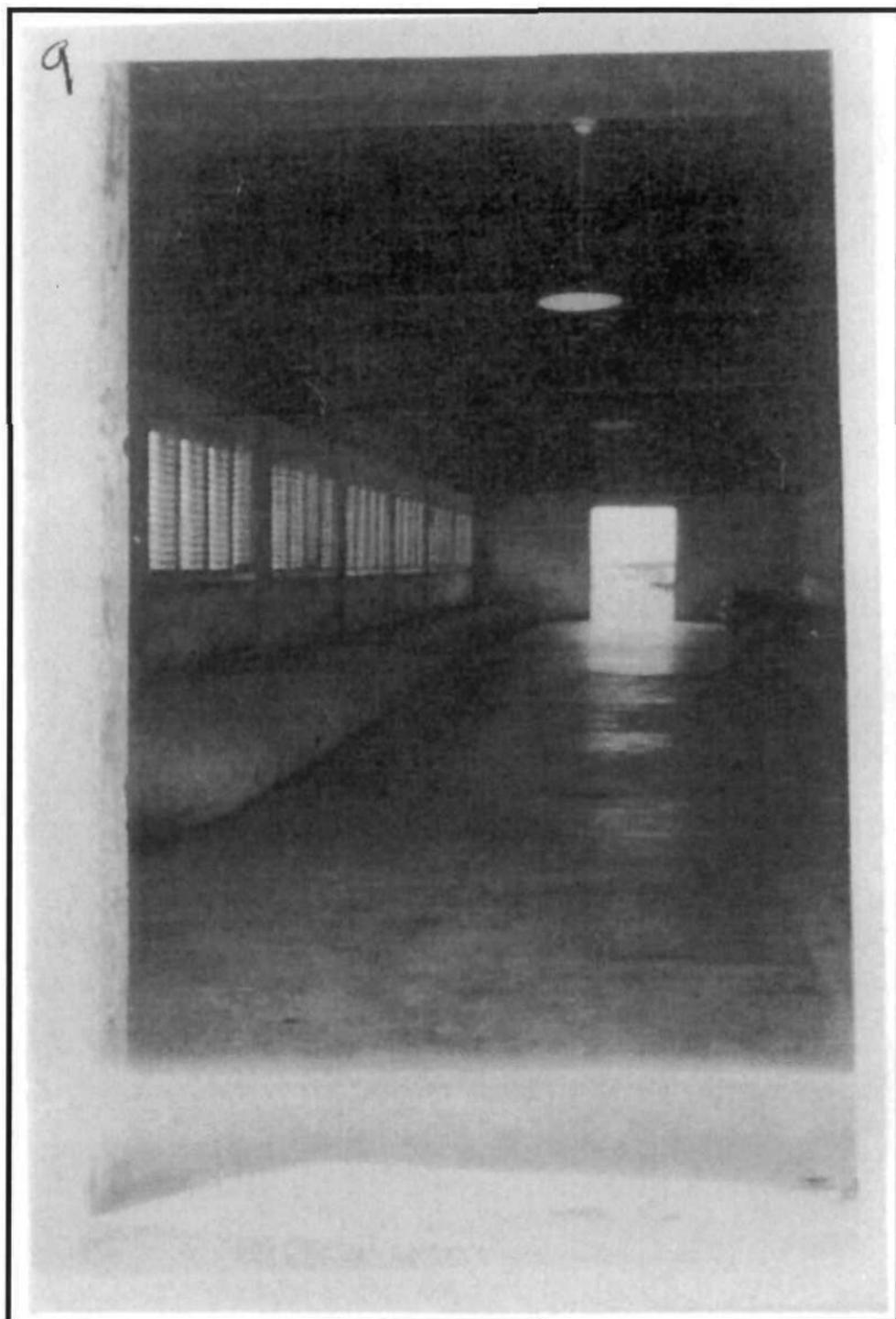


Wapp 07 "Deep water dock in center of picture, beach test area on left. You can judge where the tower stood. It was either for water – or a lookout meant to resemble a water tower."

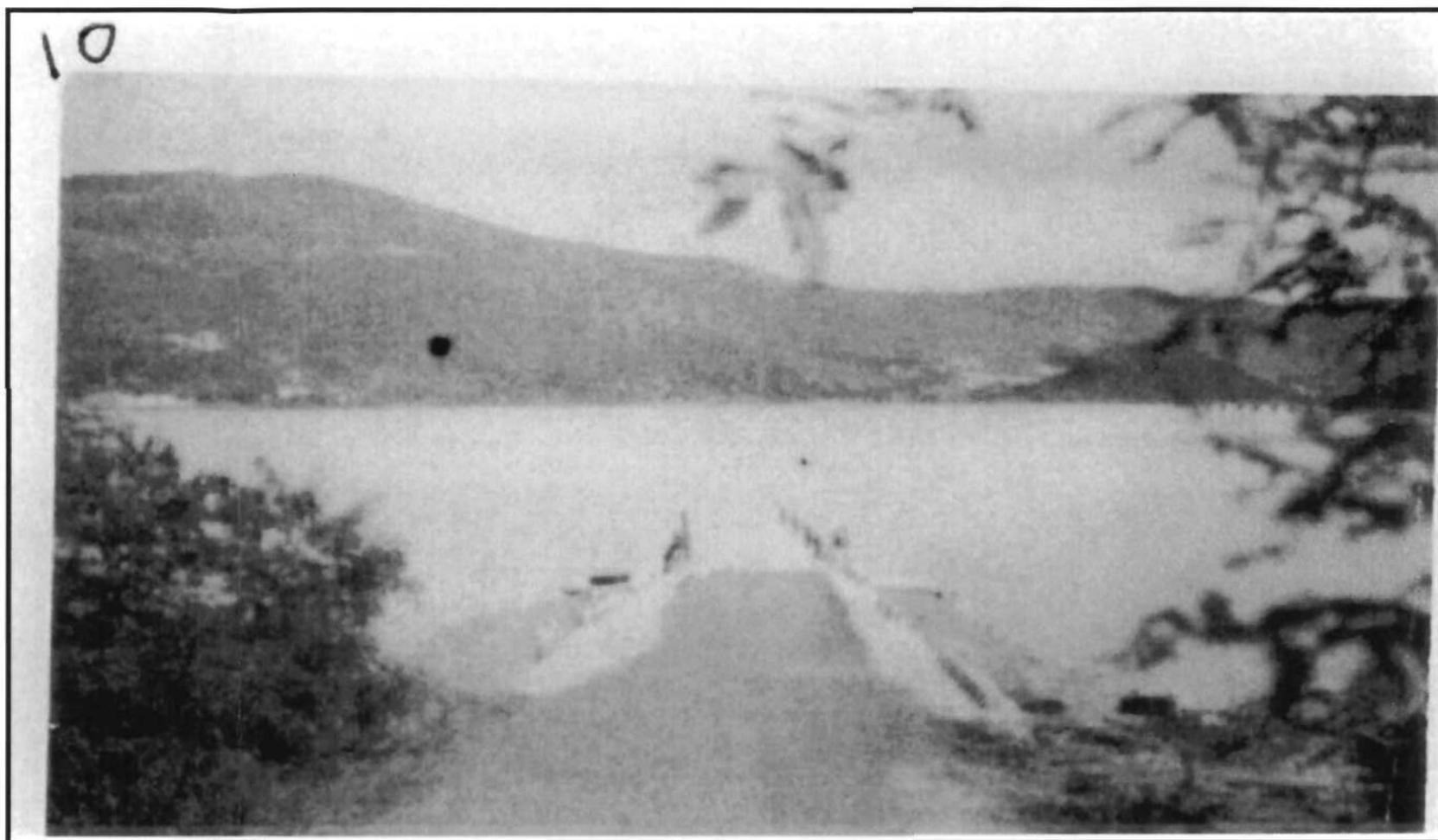


Wapp 08 "These were observation & a smaller caliber gun emplacement on the east tip of Water Is."

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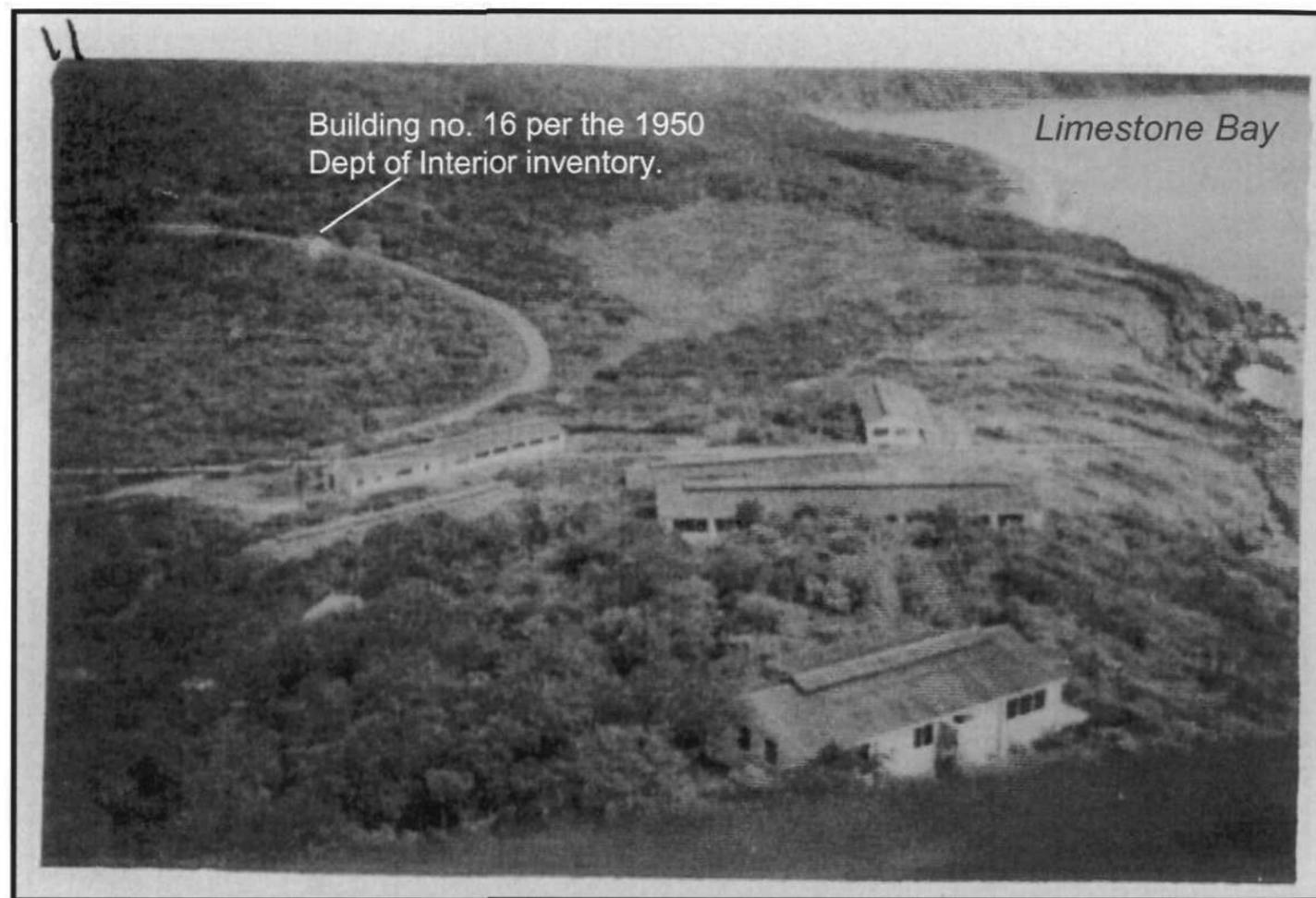


Wapp 09 "One of the buildings where we kept our bombs. Had to check for leaks daily – main 1 ton container area – backdoor."



Wapp 10 "This was our dock, used every day, via our J-boat – now your ferry dock."

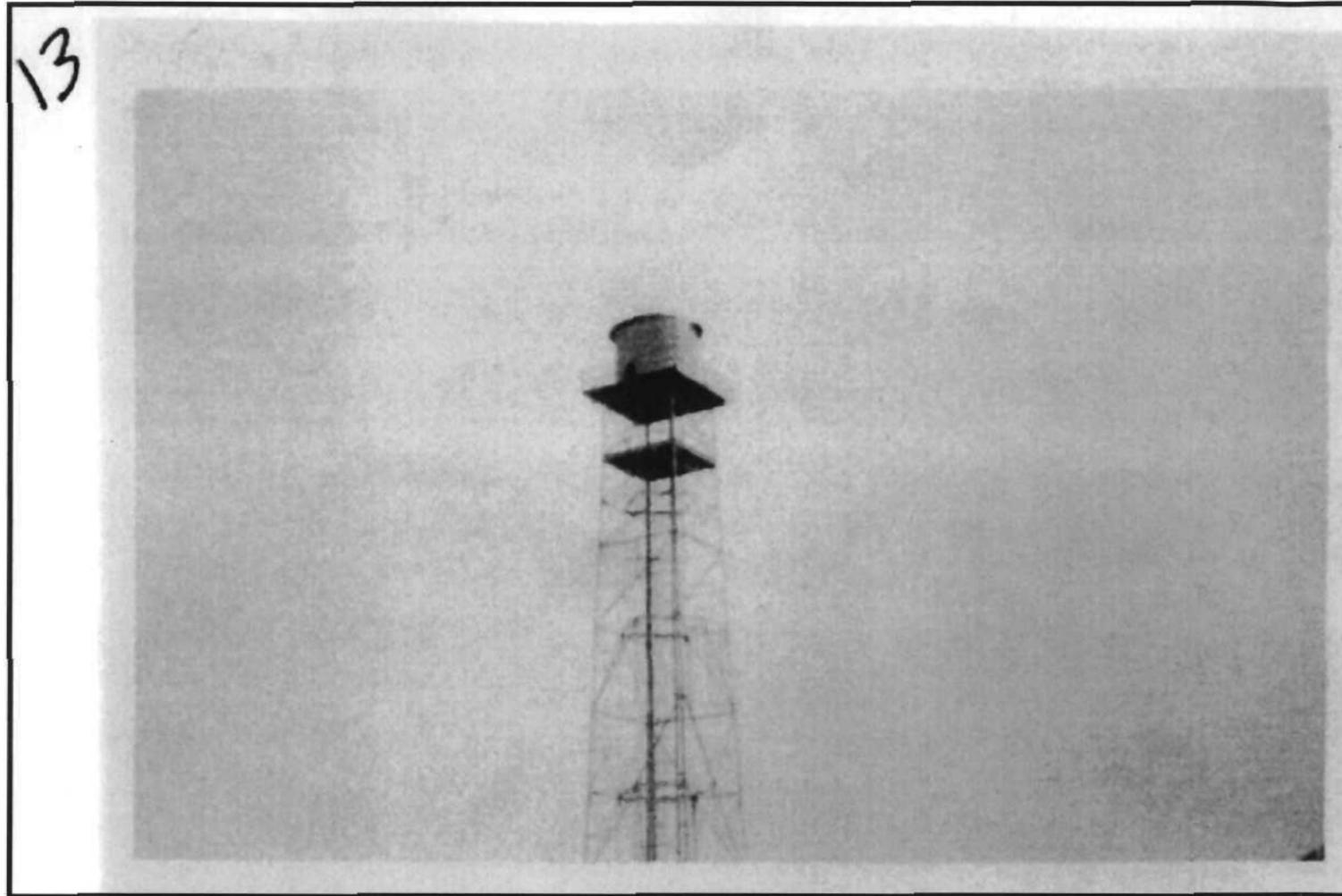
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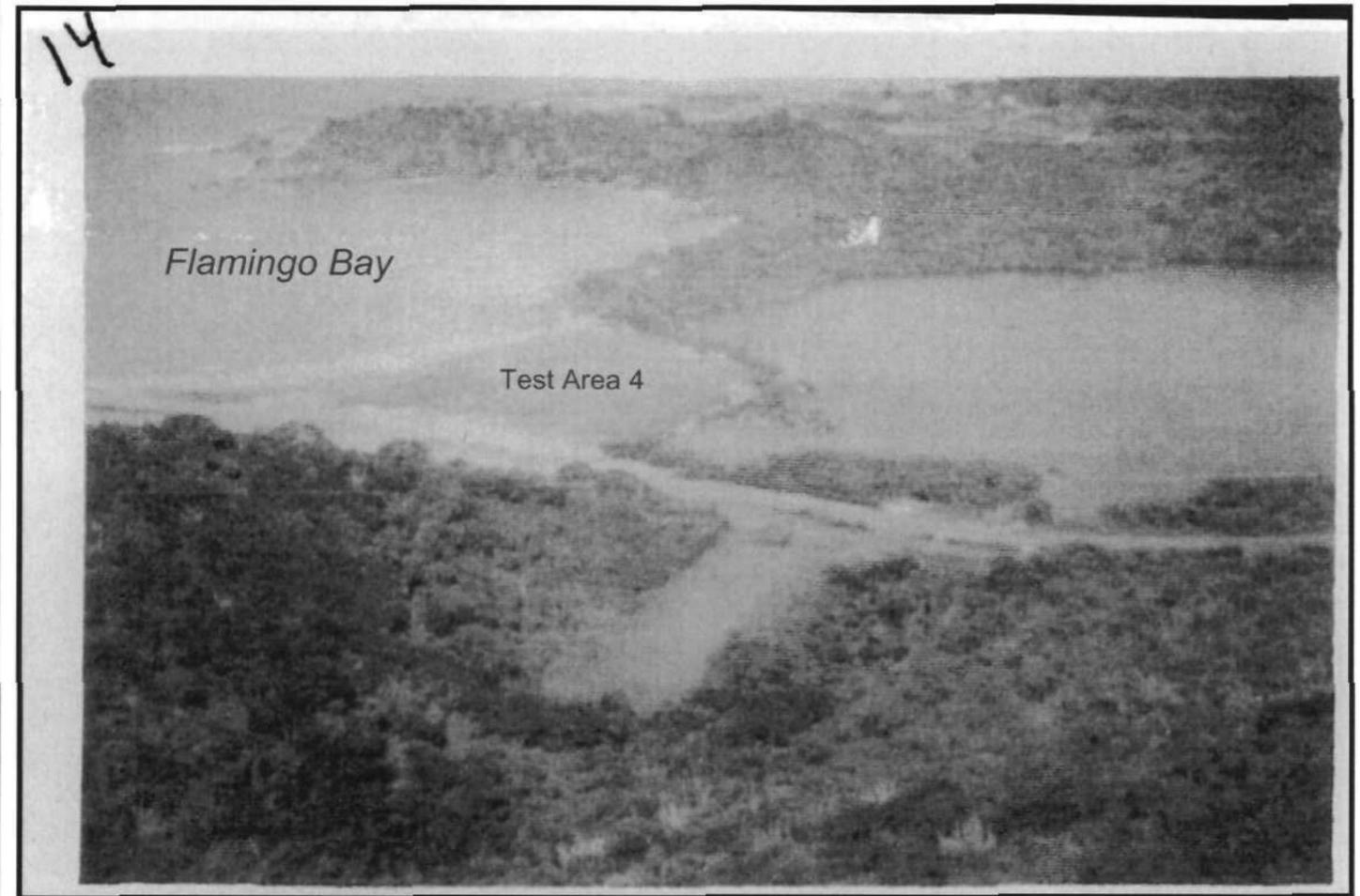
Wapp 11 "Road on left, went up to main area. Small building on upper left – 2 diesel generators – our power source. You can judge location of other buildings."

Wapp 12 "Looking toward east point of Water Is."

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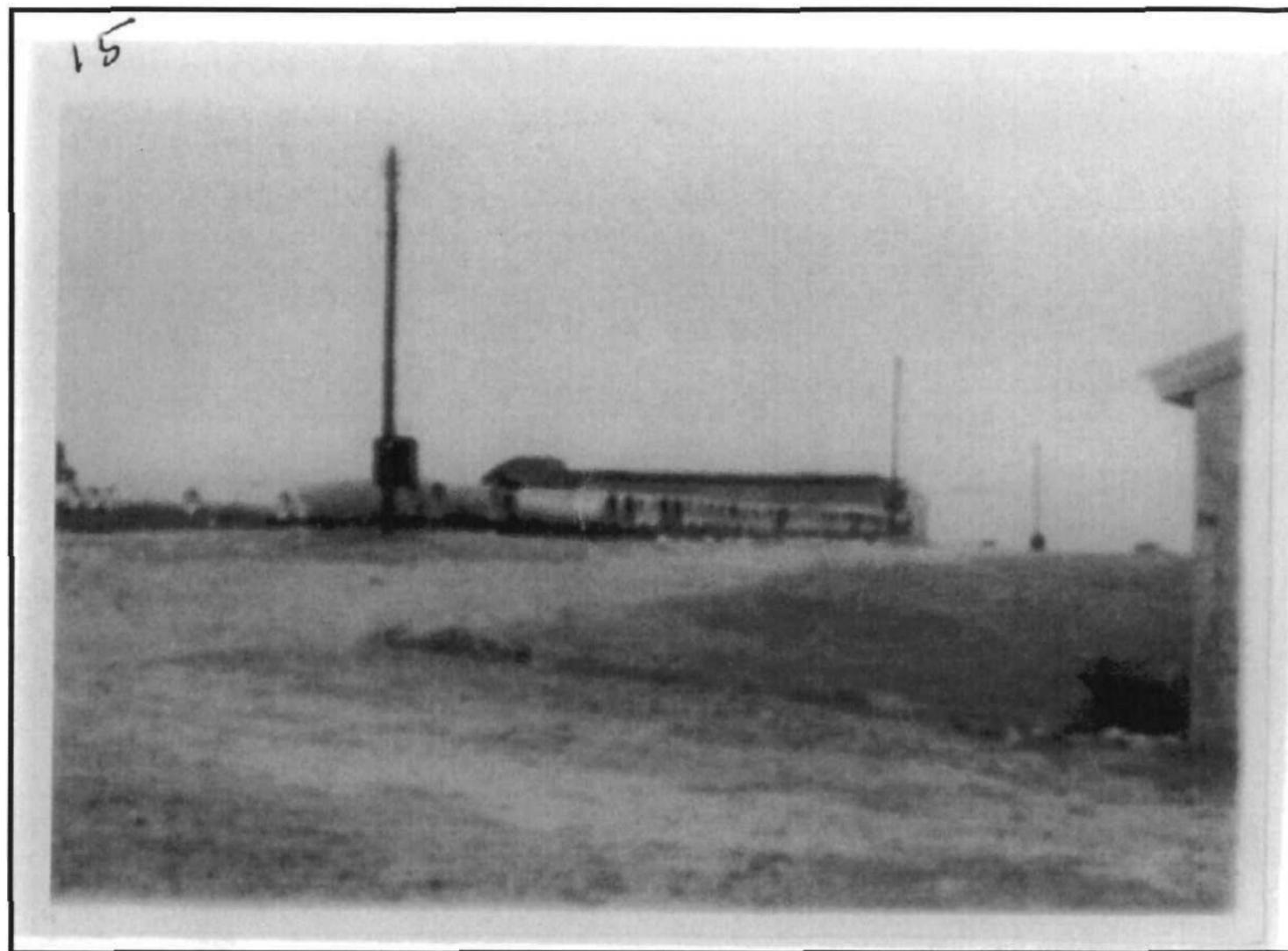


Wapp 13 "Close up of that water tower – there was pipe running all the way up – but I couldn't find a power source."

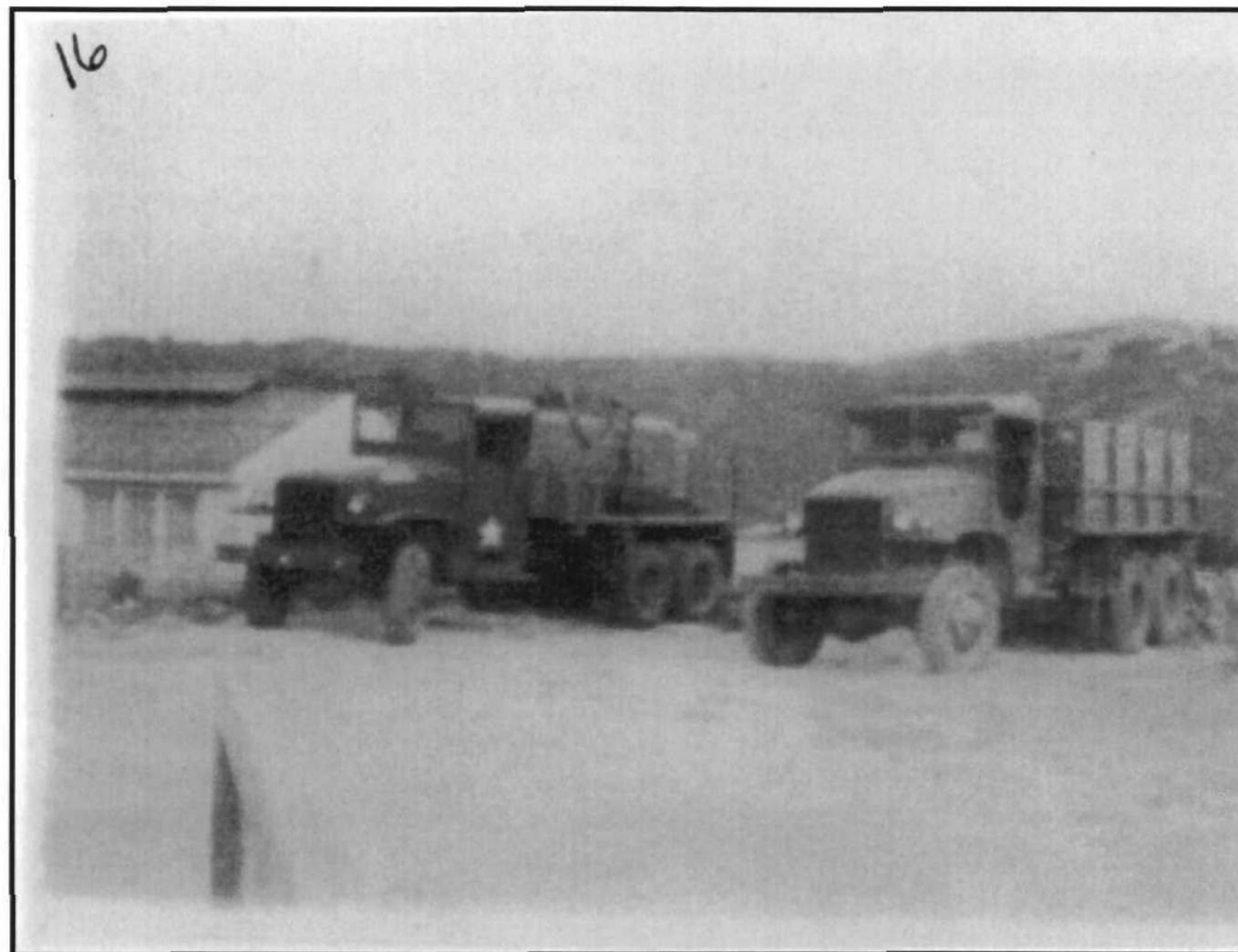


Wapp 14 "Good shot of the bay & test area brushed out area in center bottom was parking area & staging for test."

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Wapp 15 "Close up of main area, showing rows of 1 ton containers stored on 12 x 12 railroad timbers."



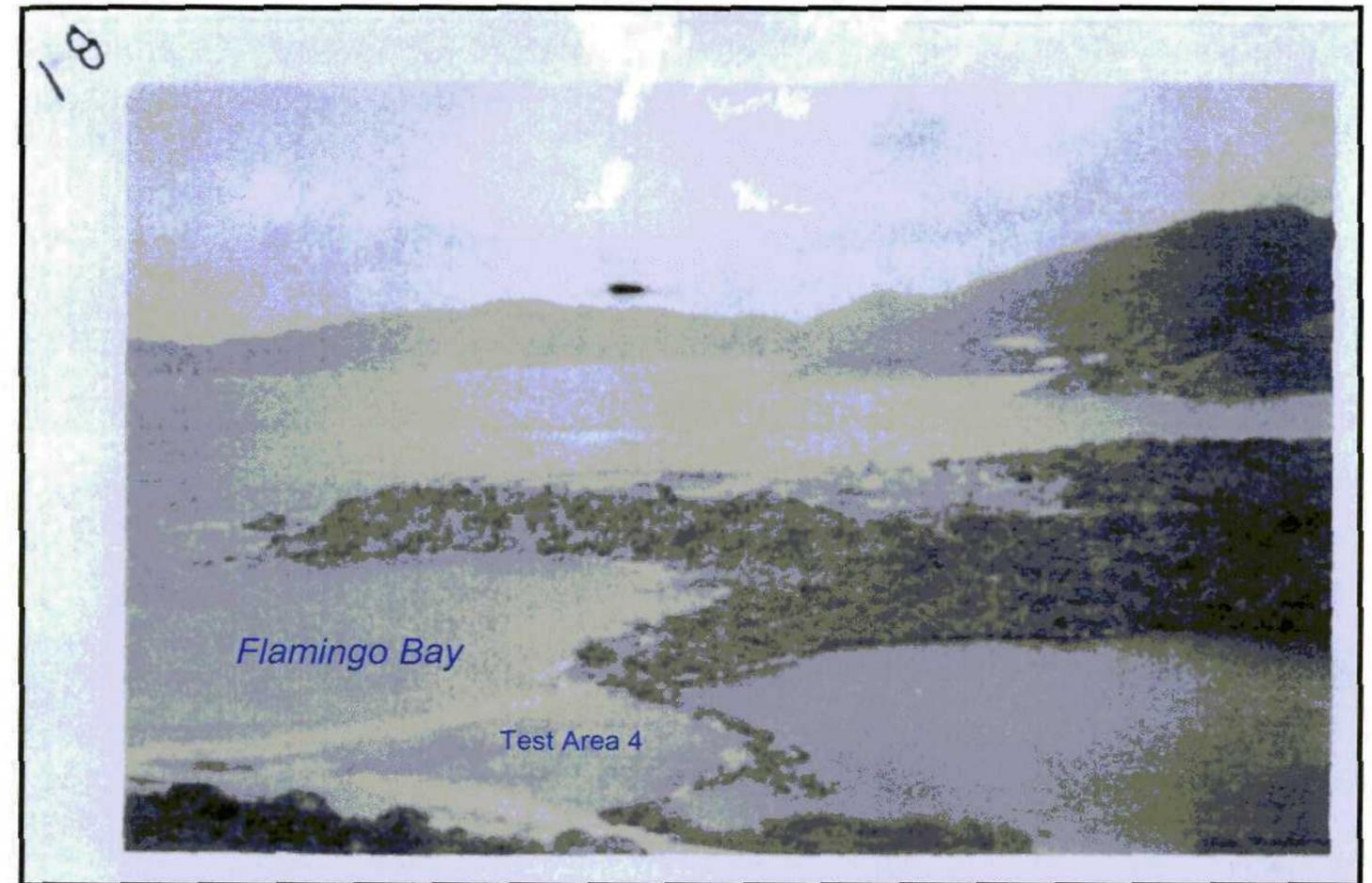
Wapp 16 "2 1/2 ton decon truck on left. Used for decontamination also fire truck. 2 1/2 ton on right – used for whatever. Taken by main area buildings."

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Wapp 17 "One of the coastal gun mounts they hadn't removed yet. I think this one was on the east end of island."

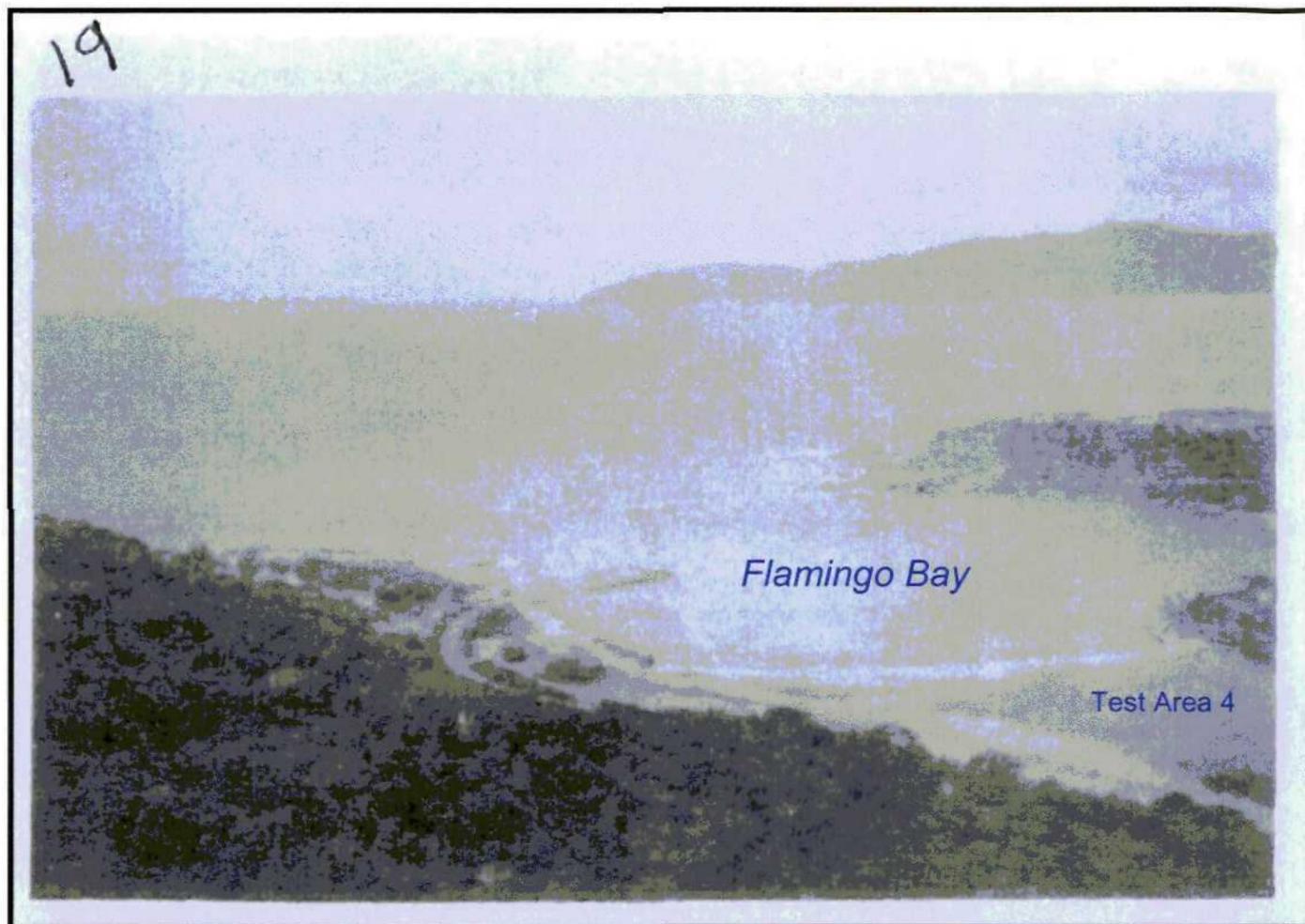
NOTE: This is probably on the west end of the island, looking to the northwest. Possible location is on the peninsula, off the main area, between Druif and Flamingo Bays.



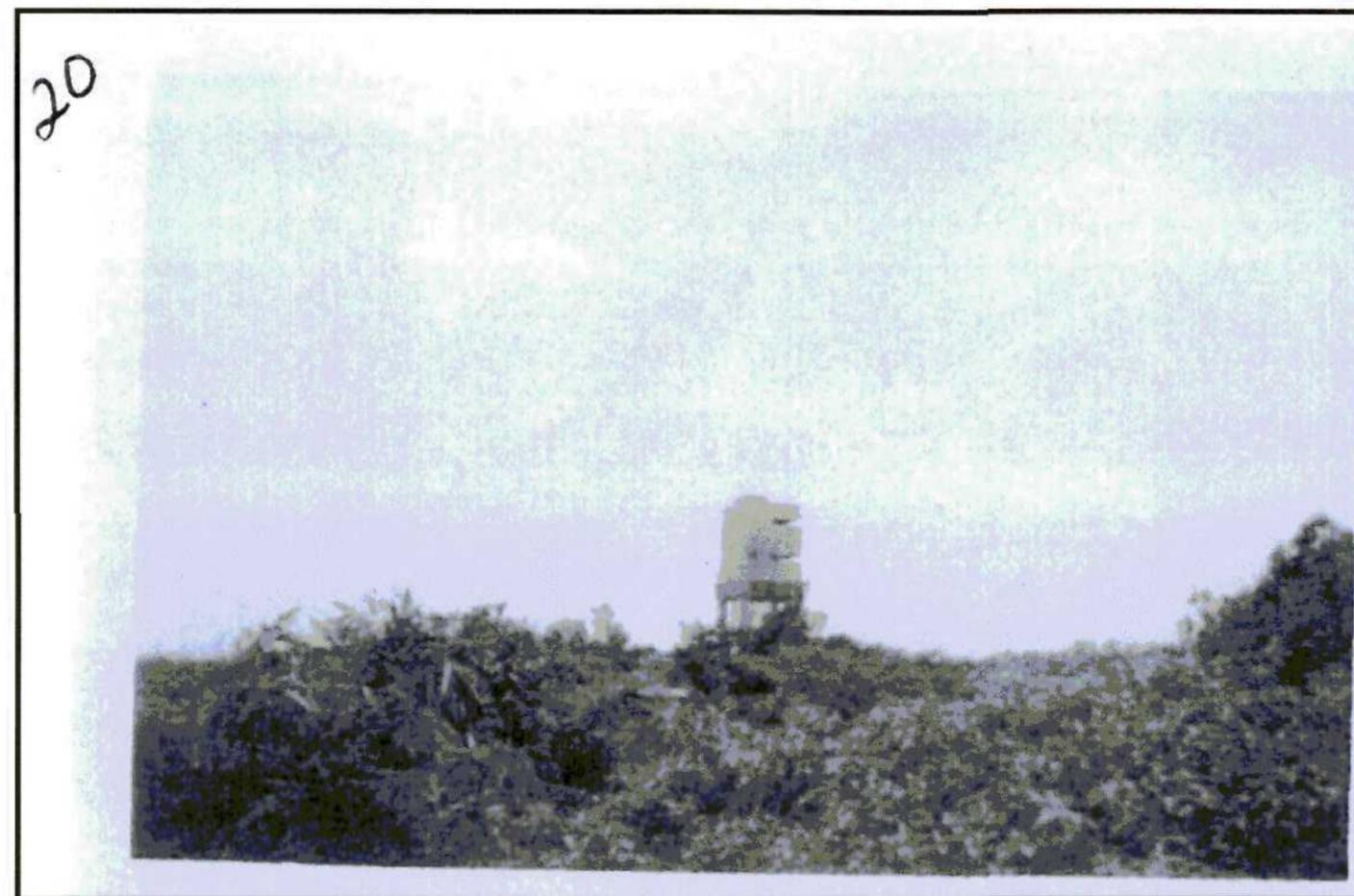
Wapp 18 "Here's a great shot, showing you beach test area – then looking up at main building area in center of photo."

Please note: comments/notes in blue were added by TEC.

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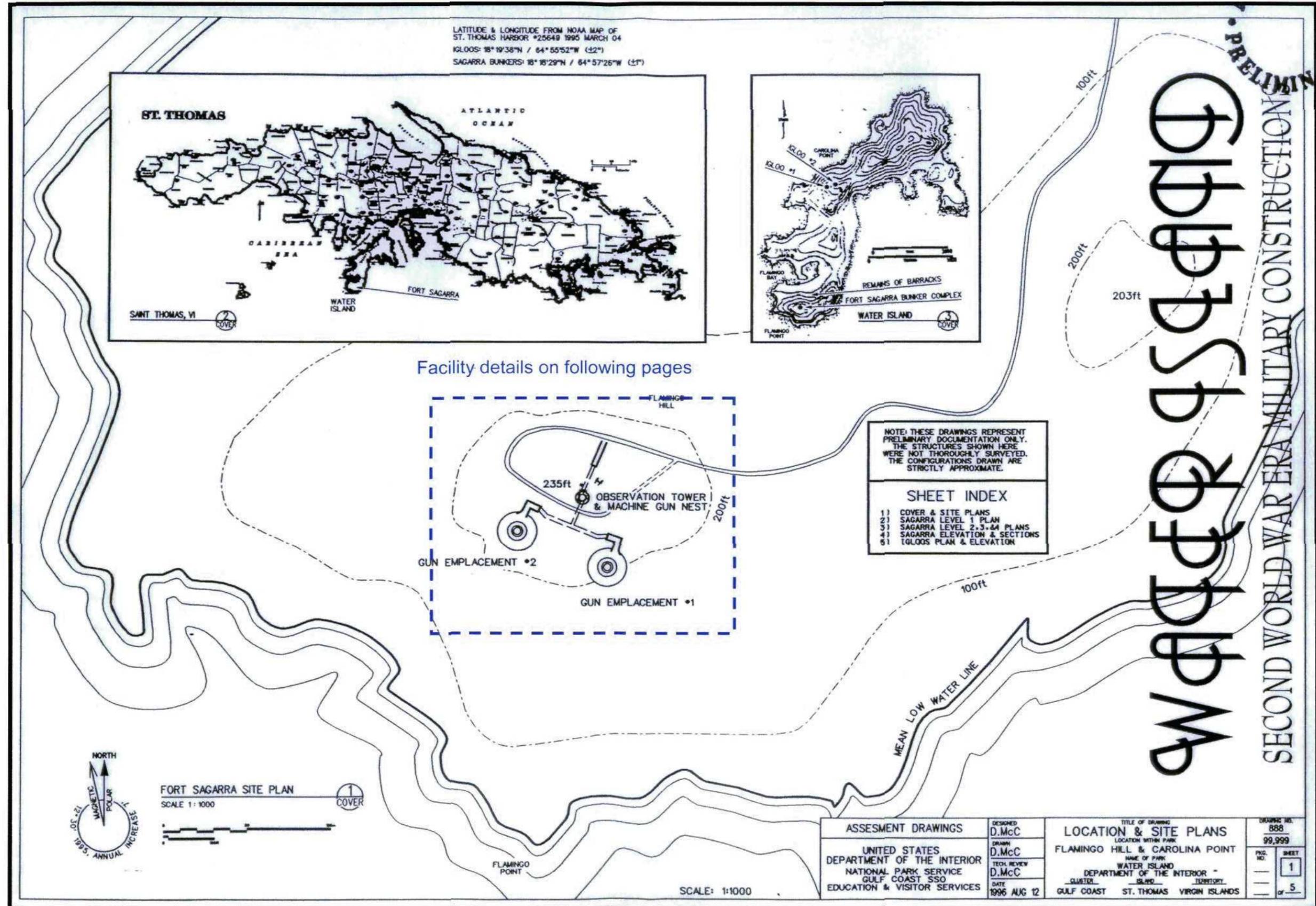


Wapp 19 "Good view of bay, deep water dock in center left – beach test area, lower right."

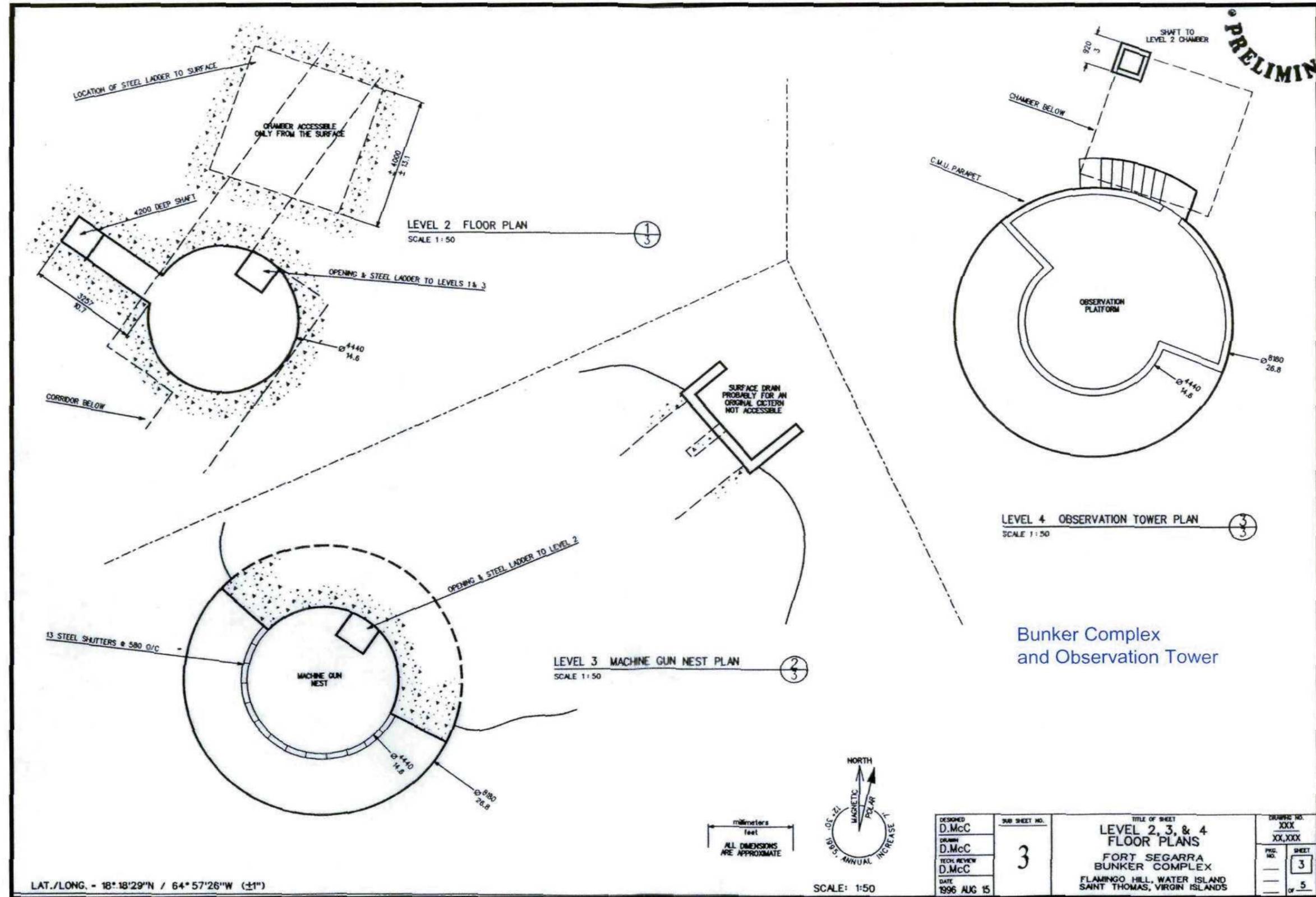


Wapp 20 "I can't be sure, where this observation tower stood. Possibly east end, or center of island."

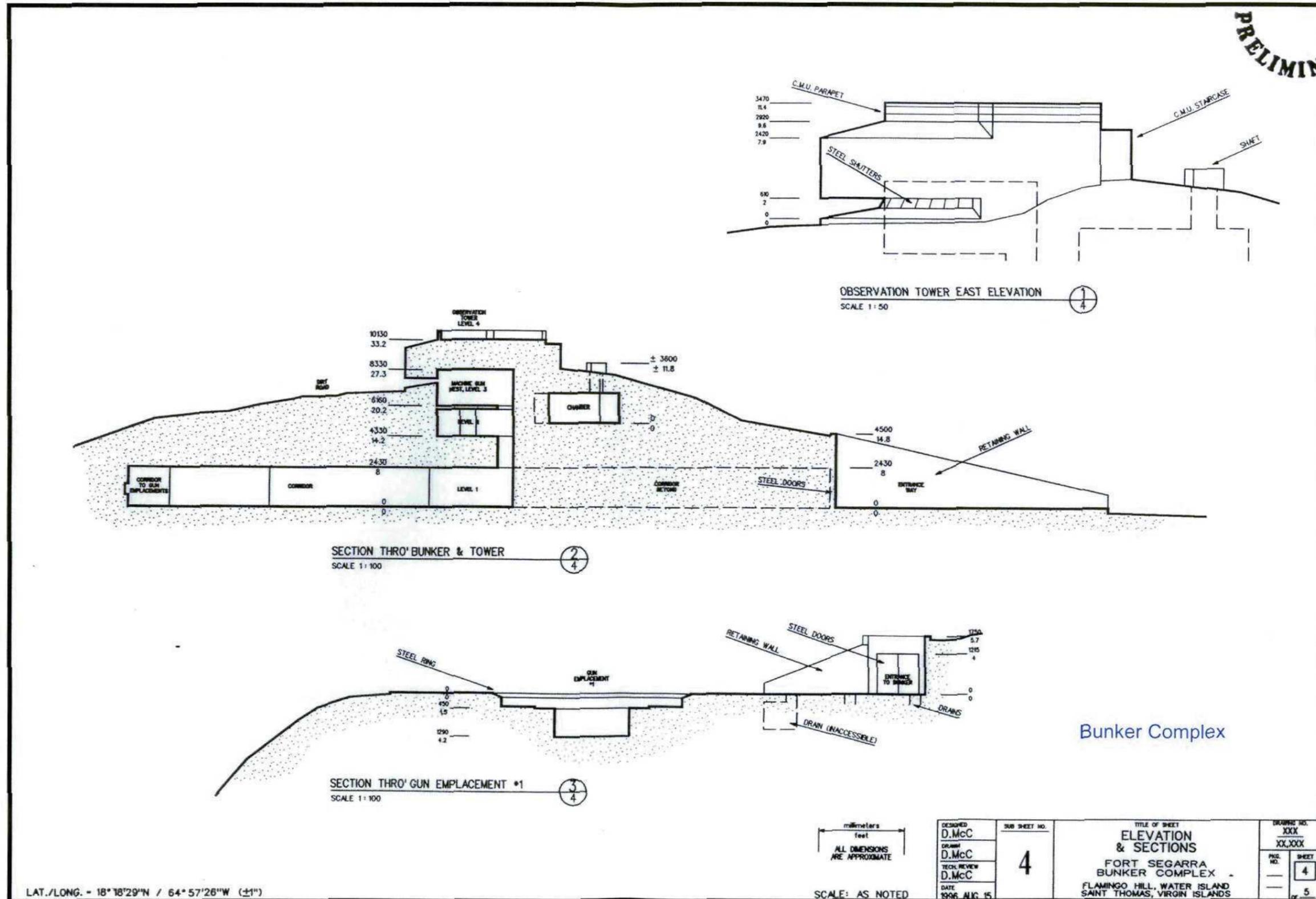
Appendix D: Historical Maps and documents. SOURCE: *Water Island Archeological Project*, National Park Service, Anderson, McCarthy and Yates, 1998. Data provided by Ms. Emily Yates of the Southeast Archeological Center, National Park Service, 2035 E. Paul Dirac Drive, Box 7, Johnson Building, Suite 120, Tallahassee, Florida 32310. December 2000.



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ADDITIONAL SOURCES REVIEWED

United States Department of the Interior, Bureau of Reclamation for the Office of Insular Affairs, *Water Island, U.S. Virgin Islands, Title Transfer, Final Environmental Assessment and finding of No Significant Impact*, May 1996.

National Park Service, Interagency Archeological Services Division, Atlanta Southeast Archeological Center, Tallahassee, *An Archeological Inventory and Assessment of Cultural Resources on Water Island, U.S. Virgin Islands*, Wild and Anderson, 1992.

U.S. Army Chemical Materiel Destruction Agency, *Former Fort Segarra Scoping Study*, 10 December 1993.