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
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.
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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 not 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—WATER ISLAND

Latitude 18° 19' 12" N
Longitude 64° 57' 13" W

US Geological Survey Map of Water Island

Source: USGS Digital Raster Graphic
Central St. Thomas quadrangle, 7.5 minute.
<table>
<thead>
<tr>
<th>AERIAL PHOTO DATE</th>
<th>FILM TYPE</th>
<th>SCALE</th>
<th>MISSION/F RAME NUMBERS</th>
<th>SOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>April 8, 1945</td>
<td>Black and White</td>
<td>1:30,000</td>
<td>GTF-PL,5M 20P8; S-6b</td>
<td>National Archives and Record Administration, College Park, Maryland, Record Group 373.</td>
</tr>
<tr>
<td>February 11, 1945</td>
<td>Black and White</td>
<td>1:10,000</td>
<td>GTF-PL,5M 68P-4: S-6</td>
<td>National Archives and Record Administration, College Park, Maryland, Record Group 373.</td>
</tr>
<tr>
<td>September 1947</td>
<td>Black and White</td>
<td>1:24,000</td>
<td>VIR-177,178</td>
<td>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</td>
</tr>
<tr>
<td>January 29, 1954</td>
<td>Black and White</td>
<td>1:30,000</td>
<td>GS YM 1-160, 1-161</td>
<td>EROS Data Center, Sioux Falls, South Dakota</td>
</tr>
<tr>
<td>October 28, 1958</td>
<td>Black and White, Infra-red</td>
<td>1:14,000</td>
<td>C&amp;GS 58L7365,7366,7339 &amp; 7340</td>
<td>National Geodetic Information Center, NOAA/NGS, Silver Spring, Maryland</td>
</tr>
<tr>
<td>January 26, 1963</td>
<td>Black and White</td>
<td>1:12,000</td>
<td>1237-14-591,590 and 589</td>
<td>Aerial Viewpoint, PO BOX 12289, Spring, TX 77391-2289</td>
</tr>
<tr>
<td>February 21, 1964</td>
<td>Black and White</td>
<td>1:24,000</td>
<td>C&amp;GS 64W3445, 3446</td>
<td>National Geodetic Information Center, NOAA/NGS, Silver Spring, Maryland</td>
</tr>
<tr>
<td>March 9, 1965</td>
<td>Black and White</td>
<td>1:15,000</td>
<td>C&amp;GS 65L1556,1555</td>
<td>National Geodetic Information Center, NOAA/NGS, Silver Spring, Maryland</td>
</tr>
<tr>
<td>February 7, 1971</td>
<td>Black and White</td>
<td>1:20,000</td>
<td>PCFD-64,65</td>
<td>USDA, Aerial Photography, Field Office, Salt Lake City, Utah</td>
</tr>
<tr>
<td>November 21, 1971</td>
<td>True Color</td>
<td>1:20,000</td>
<td>NOS 71L1209,1210</td>
<td>National Geodetic Information Center, NOAA/NGS, Silver Spring, Maryland</td>
</tr>
<tr>
<td>February 5, 1983</td>
<td>Color Infra-red</td>
<td>1:40,000</td>
<td>LN16-RN1 551,552</td>
<td>EROS Data Center, Sioux Falls, South Dakota</td>
</tr>
<tr>
<td>September 10, 1991</td>
<td>True Color</td>
<td>1:9,600</td>
<td>Roll 9102 171, 172, 173</td>
<td>USACE, Huntsville Engineering and Support Center, Huntsville, AL</td>
</tr>
<tr>
<td>March 1, 1999</td>
<td>True Color</td>
<td>1:48,000</td>
<td>NOS 99ACN04, No. 0634</td>
<td>National Geodetic Information Center, NOAA/NGS, Silver Spring, Maryland</td>
</tr>
</tbody>
</table>

ERDC-TEC
# TABLE 2: DIGITAL ORTHOPHOTO PRODUCTS

<table>
<thead>
<tr>
<th>ORTHOPHOTO DATE</th>
<th>FILM TYPE</th>
<th>PRODUCTION SOURCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 9, 1965</td>
<td>Black and White</td>
<td>US Army Topographic Engineering Center, Alexandria, Virginia</td>
</tr>
<tr>
<td>1995 (covers only north part of island)</td>
<td>Black and White</td>
<td>Jacksonville District Corps data produced by Woolpert, Mobile, AL.</td>
</tr>
<tr>
<td>March 1, 1999</td>
<td>True Color</td>
<td>National Oceanographic and Atmospheric Administration (NOAA) Research Center, Boulder, Colorado.</td>
</tr>
</tbody>
</table>

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

Drawing of Carolina Point Igloo
1947 AERIAL PHOTO OF WATER ISLAND

September 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.
This is not a pit—it is one of the gun emplacements.
1954 aerial photo with the 1991 "blue line" engineering drawing superimposed.
Flamingo Landfill, Site 4 (Test Area 4) and Site 5 (Test Area 5)

Legend

Blue lines are the 1991 engineering drawing lines.

(1991 drawings by Lowe Engineers. "blue line" created by TEC)

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

1958 AERIAL PHOTO OF WATER ISLAND

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

Salt Pond

Buildings/structures

Cleared area

See inset above

Dock

October 28, 1958 Aerial Photo

(black and white infra-red film. Water appears black due to light absorption with this film type.)
1965 AERIAL PHOTO OF WATER ISLAND

- Disturbed ground/cleared area
- Sprat Bay
- Mounded material along shoreline
- Salt pond
- Cleared area
- March 9, 1965 Aerial Photo

- Containers
- Numerous objects and structures
- Possible dredge operation
- Mounded material
- Objects in these areas
- Salt Pond
- Disturbed ground/excavation
1971 AERIAL PHOTO OF WATER ISLAND

November 21, 1971 Aerial Photo—true color

- Disturbed ground/excavation
- Fill material/debris
- Building
- Depression—salt pond
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.
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.
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 arrangements 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,

[Signature]

Morris F. de Castro
Governor

Fig. 2: 18 August 1950

August 18, 1950

Maj. Gen. Louis A. Ploch
Chief of Engineers
United States Army
Washington, D.C.

My dear General Ploch:

It is our understanding that the property known as Ft. Segarra, consisting of 300 acres located on Water Island in St. Thomas Harbor, Virgin Islands, will, with the termination of the San Jose Project on August 26, 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,

/a/ James F. Davis
Director
Appendix A

Fig. 3: 23 August 1950

[Image of document with text]

ERDC-TEC
DEPARTMENT OF THE ARMY

PERMIT TO OTHER FEDERAL GOVERNMENT DEPARTMENT OR AGENCY TO USE PROPERTY ON FORT SHAFTER (ATIKA ISLAND) MILITARY RESERVATION, SAN JOSÉ 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 Shafter (Aitika Island) Military Reservation, San José Project, St. Thomas, V.I., as shown and 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 Shafter (Apitika Installation no. 7133) San José Project, located in St. Thomas Harbor, St. Thomas, Virgin Islands, consisting 260 acres of land, more or less, together with all real and personal property thereon set forth in inventory attached hereto and made a part hereof as Exhibit "A."

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 1952.

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 may from time to time be prescribed.

3. That the premises shall, at the owner's 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 preparing and/or acquiring any utilities 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.

This permit is issued to the Corporation of the City of New York, dated 1 April 1949.

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

DEPARTMENT OF THE ARMY

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 services. 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 thereof I have set my hand this 31st day of August 1950, under the authority of the Secretary of the Army and because of the Chief of Engineers.

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.

[Signature]

Deputy Real Estate Officer
Antilles Area Office
South Atlantic Division

Fig. 6: 31 August 1950, page 2 of 2
Office Memorandum • UNITED STATES GOVERNMENT

TO:  Mrs. Chapman  
FROM: Mrs. Pequera  
DAYS: 1 May 1951

SUBJECT: Request for development Fort Sagra

1. The following is a report on the request by Governor De Castro for advice whether the present Department of the Army permit covering Fort Sagra would allow the development of the property into a cottage-type hotel.

2. As you are aware, the present permit was issued as a result of the inability of the Government of Virgin Islands to acquire Water Island by transfer under the provisions of the extinct Public Law 350 - 81st Congress and as a transitory measure pending enactment of theUrlsbus Appropriation Bill, which in effect would extend the purpose and scope of Public Law 350. In other words, the intent of the Department of the Army at the time disposal of San Juan Project was authorized, was to permanently transfer Fort Sagra to the Government of Virgin Islands through the Department of Interior. Only the expiration of Public Law 350 precluded this action. The right granted to the Government of Virgin Islands under the permit is as broad as could be; the permit authorizes the "use" of the property with no limitation as to the type of use. However, the permit provides that said use shall be "under the general supervision and subject to the approval of the Officer having immediate jurisdiction over the premises and also to such rules and regulations as he may from time to time prescribe." The permit also provides that "no additions to or alterations of the premises be made without the prior consent of said Officer".

3. The permit is revocable at will by the Secretary of the Army and contains the standard provision relative to vacation and restoration of the premises.

4. Governor De Castro indicates in his letter that the proposed development will be made subject to the terms of the permit in their entirety.

5. In view of the foregoing, it appears that the ultimate determination as to whether the request of Governor De Castro may be granted rests with the Commanding General, U.S. Army Forces, Antilles under whose jurisdiction the property is at present. In the event of a favorable consideration of this request by the Commanding General an amendment of the permit would not be required. A formal letter of authorization to develop Fort Sagra to the intended cottage-type hotel under the rules and regulations as the Commanding General may deem appropriate would be sufficient.

Fig. 7: 1 May 1951

Fig. 8: 1947 Map showing grazing areas—refer to figure 9 letter.
Fig. 9: 25 July 1951

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

Dear Sir:

I am sending this letter to you hoping you can give me some information concerning the particular area in:

am the man who has Fort Sago Military Reservation (Water Island) leased in 1947 for the term of five (5) years. It was taken back by the Army about two months later when I was starting to work there. I had there was boat. It was mud and not being used at present by the Army. I wanted to know if any opportunity can be given to me in taking some samples of the soil as shown in the sketch that was sent to me at that time and that are enclosed in this letter.

I have marked these areas in the sketch because as the cost for irrigation and grazing purposes.

Very truly yours,

Bernabe Mercado Canacho

Fig. 10: 30 July 1951

Mr. Bernabe Mercado Canacho
Mr. Leguillón
Viñales, P.R.

Dear Sir:

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

Please be advised that Fort Sagoa 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 leasing through Department of the Army channels.

For the District Engineer,

Very truly yours,

Dwight L. Chapman
Deputy District Real Estate Officer
AREA ENGINEER, CARIBBEAN AREA
J A MONTEVILLE, FLORIDA DISTRICT
CORPS OF ENGINEERS, U. S. ARMY
P. 0. BOX 3233 EL MUNTE, P. R.

23 December 1952

Subject: Report of termination of instrument.

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

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

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 Segarre (Water Island Mill, Res.)
   San Jose Project, St. Thomas, V. I.
(e) Effective date of termination: 5 November 1952
(f) Property transferred to grantee pursuant to:
   Public Law 211 - 82nd Congress
(g) Compliance with conditions of instrument as to retention, removal of property, and
   restoration of premises:

   Not required as grantee retained possession under permanent transfer.

Inscreee:

Distribution:

- Deputy District Real Estate Officer
- Judge Advocate (General), Records Branch
- Chief of Engineers, Real Estate
- Division Engineer, Real Estate
- D. E. - Jax Flx. Dist.
- Greater
- D. L. Reck
- Area Engr. - Coral Area

RECEIVED
1952

50
Fig. 13: 31 December 1952

SANTA A
31 December 1952
/spt/

Hon. Morris F. de Castro
Governor of the Virgin Islands
St. Thomas, Virgin Islands

Dear Governor de Castro:

Included for your information and records are two
confirmed copies of Res. P.R. No. 1086, Report of Termination:
for Permits granted the Department of Interior (Office of
Minerals) for the use of Fort Siquirig Military Reservation
(San Jose Project) and Croun Mountain AWS Site,
St. Thomas, V. I.

These permits have been terminated by reason of
permanent transfer of the installations to the grantee
on 6 November 1952, pursuant to Public Law 611, 82nd
Congress.

F. T. KING
For the Army Engineer

Dwight L. Chapman
Res. P.R. No. 1086
Assistant Area Engineer
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

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 SUGAR (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:** [Signature]

[Accountable Property Officer]

**By:** [Signature]

[Minister of Home Affairs]

---

### DESIGNATION AND DESCRIPTION

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>Quantity</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>BARRACKS (Incomplete) 22'8&quot; x 96'8&quot;, concrete foundation, concrete floor, concrete block walls, corrugated iron black roof.</td>
<td>1 EA.</td>
<td>Fair</td>
</tr>
<tr>
<td>3</td>
<td>LAVADO (Incomplete) 22'8&quot; x 96'8&quot;, concrete foundation, concrete floor, concrete block walls, corrugated iron black roof.</td>
<td>1 EA.</td>
<td>Fair</td>
</tr>
<tr>
<td>4</td>
<td>BARRACKS (Incomplete) 22'8&quot; x 96'8&quot;, concrete foundation, concrete floor, concrete block walls, corrugated iron black roof.</td>
<td>1 EA.</td>
<td>Fair</td>
</tr>
<tr>
<td>5</td>
<td>BARRACKS (Incomplete) 22'8&quot; x 96'8&quot;, concrete foundation, concrete floor, concrete block walls, corrugated iron black roof.</td>
<td>1 EA.</td>
<td>Fair</td>
</tr>
<tr>
<td>6</td>
<td>BARRACKS (Incomplete) 22'8&quot; x 96'8&quot;, concrete foundation, concrete floor, concrete block walls, corrugated iron black roof.</td>
<td>1 EA.</td>
<td>Fair</td>
</tr>
<tr>
<td>9</td>
<td>PUMP HOUSE (Estate) (Incomplete), 22'8&quot; x 96'8&quot;, concrete foundation, concrete floor, concrete block walls, corrugated iron black roof.</td>
<td>1 EA.</td>
<td>Fair</td>
</tr>
<tr>
<td>10</td>
<td>BARRACKS (Incomplete) 22'8&quot; x 96'8&quot;, concrete foundation, concrete floor, concrete block walls, corrugated iron black roof.</td>
<td>1 EA.</td>
<td>Fair</td>
</tr>
<tr>
<td>11</td>
<td>LAVADO (Incomplete) 22'8&quot; x 96'8&quot;, concrete foundation, concrete floor, concrete block walls, corrugated iron black roof.</td>
<td>1 EA.</td>
<td>Fair</td>
</tr>
<tr>
<td>12</td>
<td>ADMINISTRATION &amp; SUPPLY (Incomplete), 22'8&quot; x 96'8&quot;, concrete foundation, concrete floor, concrete block walls, corrugated iron black roof.</td>
<td>1 EA.</td>
<td>Fair</td>
</tr>
<tr>
<td>13</td>
<td>BARRACKS &amp; POST ENTR. WAREHOUSE, 22'8&quot; x 96'8&quot;, concrete foundation, concrete floor, concrete block walls, corrugated iron black roof.</td>
<td>1 EA.</td>
<td>Fair</td>
</tr>
<tr>
<td>14</td>
<td>P. X. &amp; RECREATION HALL (Incomplete), 22'8&quot; x 48'8&quot;, concrete foundation, concrete floor, concrete block walls, corrugated iron black roof.</td>
<td>1 EA.</td>
<td>Fair</td>
</tr>
<tr>
<td>15</td>
<td>MESS HALL (Incomplete), 22'8&quot; x 122'8&quot;, concrete foundation, concrete floor, concrete block walls.</td>
<td>1 EA.</td>
<td>Fair</td>
</tr>
</tbody>
</table>

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

ERDC-TEC

Record Group 77, 680.4, San Jose Project.
BUILDING NO. 37 - PUMP HOUSE, 13'4" x 21'4", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof.

EST. $1143.00

A. Non-removable installed property:

(1) Pump, hydraulic, 2 hp. (1 EA)

(2) Pump, hand, Ser. No. 770 (1 EA)

BUILDING NO. 23 - SLASH LIGHT SHELTER, 14' x 21'4", concrete foundation, concrete floor, corrugated iron black roof.

EST. $494.00

A. Non-removable installed property:

(1) Pump, piston, gasoline engine, Ind. 1114, Ser. No. G95138, motor 296-95, 125 gph, Unit G46766, Unit No. ABWU, 66313-9 (1 EA)

BUILDING NO. 19 - Sludgering, (Dynamite & Cup House), 8' x 10', concrete & stone foundation, concrete floor, cement & stone walls, cement & stone roof.

EST. $494.00

A. Non-removable installed property:

(1) Pump, piston, gasoline engine, Ind. 1114, Ser. No. G95138, motor 296-95, 125 gph, Unit G46766, Unit No. ABWU, 66313-9 (1 EA)

BUILDING NO. 22 - SHAPIRO LIGHT SHELTER, 14' x 21'4", concrete foundation, concrete floor, corrugated iron black roof.

EST. $17944.00

A. Non-removable installed property:

(1) Pump, hydraulic, 2 hp. (1 EA)

BUILDING NO. 36 - FISHING LIFT, 21'4" x 50", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof.

EST. $10,800.00

A. Non-removable installed property:

(1) Lift

B. Non-removable installed properties:

(1) Elevator, fire, water ty, 4 gal. (1 EA)

BUILDING NO. 31 - LAUNDRY, 21'4" x 40'8", concrete foundation, concrete floor, concrete block walls, corrugated iron black roof.

EST. $94,950.00

A. Non-removable installed property:

(1) Lift

B. Non-removable installed properties:

(1) Elevator, fire, water ty, 4 gal. (1 EA)

ERDC-TEC
## ELECTRICAL DISTRIBUTION SYSTEM, OVERHEAD AND SERVICES

**A. Removable installed property**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>Transformer, 10kVA, Ser. No. 6981804</td>
<td>3 Ea.</td>
<td>Good</td>
</tr>
<tr>
<td>(2)</td>
<td>Transformer, 7.5kVA, Ser. No. 6983768</td>
<td>1 Ea.</td>
<td>Good</td>
</tr>
<tr>
<td>(3)</td>
<td>Transformer, 3.3kVA, Ser. No. 6982105</td>
<td>1 Ea.</td>
<td>Good</td>
</tr>
<tr>
<td>(4)</td>
<td>Transformer, 10kVA, Ser. No. 6981644</td>
<td>1 Ea.</td>
<td>Good</td>
</tr>
<tr>
<td>(5)</td>
<td>Transformer, 7.5kVA, Ser. No. 6982048</td>
<td>1 Ea.</td>
<td>Good</td>
</tr>
<tr>
<td>(6)</td>
<td>Transformer, 3.3kVA, Ser. No. 6982347</td>
<td>1 Ea.</td>
<td>Good</td>
</tr>
</tbody>
</table>

**B. SHELTER; Animals, 16' x 100', wood construction.**

1 Ea. Good

**C. FENCE; Chain Link, pipe post.**

- Lgth. 960'
- Hghth. 6'
- Barbbed Wire; Lgth. 946'
- Post 73 ea.

15,000 Sq.Yds. Good

**D. ROADS; Bitumal, low type**

15,000 Sq.Yds. Good

**E. WATER DISTRIBUTION SYSTEM, MAINS & SERVICES**

- Water Main Service lines
- 6,200 ft.
- 1,200 ft.

4,000 ft. Unknown

**F. ELECTRIC DISTRIBUTION SYSTEM, OVERHEAD LINES & SERVICES**

- Overhead Lines
- 5,000 ft. Good
- Transmission Lines
- 5,000 ft. Good

**G. SEWER SYSTEM**

- Sanitary Sewer Lines (incomplete)
- 1,500 ft. Unknown

500 Acres Good

**H. LAND**

- Cost: $10,000.00
<table>
<thead>
<tr>
<th>DESIGNATION AND DESCRIPTION</th>
<th>QUANTITY</th>
<th>CONDITION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Island Communications Network</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cable, Armoured Covered, Submarine</td>
<td>700 ft.</td>
<td>Fair</td>
</tr>
<tr>
<td>Cable, 11 pair, Jute Covered</td>
<td>660 ft.</td>
<td>Fair</td>
</tr>
</tbody>
</table>

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

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.”

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.

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."

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."

Comments/notes inside the pictures are by TEC.

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.”

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."

Comments/notes inside the pictures are by TEC.

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."

Comments/notes inside the pictures are by TEC.

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

Wapp 16 "2 ½ ton decon truck on left. Used for decontamination also fire truck. 2 ½ ton on right – used for whatever. Taken by main area buildings."

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.

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."
ADDITIONAL SOURCES REVIEWED

