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NAS BRUNSWICK
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FINAL RESOURCE CONSERVATION AND RECOVERY ACT PARTIAL CLOSURE REPORT
FOR BUILDING 551 WITH TRANSMITTAL LETTER NAS BRUNSWICK ME
12/22/2010
NAS BRUNSWICK

**ENVIRONMENTAL DEPARTMENT
NAVAL AIR STATION
437 HUEY DRIVE
BRUNSWICK, ME 04011**

December 22, 2010

Mr. Edward Vigneault
Maine Department of Environmental Protection
Division of Oil and Hazardous Waste Facilities Registration
17 State House Station
Augusta, ME 04333-0017

Subj: Final RCRA Partial Closure Report for Building 551

Dear Mr. Vigneault:

A copy of the Final RCRA Partial Closure Report for Building 551 at Naval Air Station Brunswick is provided as Enclosure (1).

If you have any questions, please contact Mr. Mike Fagan at 921-1717 or via e-mail at michael.fagan1@navy.mil.

Sincerely,

FM 
LISA M. JOY
Environmental Director

Enclosure: (1) Final RCRA Partial Closure Report for Building 551

Copy to:
NAVFAC Mid-Atlantic (B. Abraham)
NAS Brunswick (M. Fagan/D. Smith)
EPA Region I (M. Daly)
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RCRA PARTIAL CLOSURE REPORT
for
BUILDING 551 – SECURITY GENERATOR BUILDING
NAVAL AIR STATION BRUNSWICK, MAINE
USEPA IDENTIFICATION NUMBER ME8170022018
DECEMBER 2010

1. INTRODUCTION

The purpose of this report is to present the findings and conclusions of the investigation conducted to determine if the Maine Department of Environmental Protection (MEDEP) RCRA or hazardous waste closure requirements have been completed for Building 551 at Naval Air Station Brunswick (NAS Brunswick).

2. PROPERTY DESCRIPTION

Building 551, known as the Security Generator Building, is located in the central area of NAS Brunswick (Figure 1), east of Building 55 (Security Headquarters Building). The building itself is in a grass-covered area immediately adjacent to (east of) the asphalt-paved parking area, east of Building 55 (Figure 2). Building 551 is bordered by grass-covered and forested NAS Brunswick grounds to the north, east, and south (portions of the Building 55 parcel). The Building 51 (Fire Prevention/NCIS Building) parcel is located north-northwest of Building 551. These buildings are all accessed from Orion Street, to the west.

Building 551 houses the emergency generator for Building 55 and was constructed in 2005. It is a one-room, unmanned building and measures 105 square feet in area. The wood-framed, wooden building (with sheetrock interior walls) was constructed on a concrete slab-on-grade foundation. Building 551 has a wooden awning on the northern side that covers an exterior, 250-gallon, double-walled steel, above-ground storage tank (AST) that stores fuel for the generator. Building 551 is not heated. Photographs of the building are provided as an attachment to this report.

Building 551 is located within the Building 55 (Security Headquarters Building) parcel. The investigation conducted under this report applies only to the building footprint of Building 551 (as shown on Figure 2). The Building 55 (Security Headquarters Building) Parcel RCRA Partial Closure Report addresses the land surrounding and the groundwater underlying Building 551 (Tetra Tech, report in progress).

3. PROPERTY HISTORY AND RECORDS RESEARCH

The Tetra Tech NUS, Inc. (Tetra Tech) project team interviewed NAS Brunswick Environmental Department personnel and performed records research at both NAS Brunswick and the MEDEP office in Augusta, Maine to collect available information concerning Building 551, including past use and operations at this location.

Records reviewed include historical aerial photographs, the NAS Brunswick Other Environmental Liabilities (OEL) Database, area-specific reports, facility plans and drawings, and hazardous waste records. Aerial photographs dated 1953, 1958, 1978, 1981, 1984, 1989, 1993 and 1997 (Sewall, 1953, 1958, 1978, 1981, 1984, 1989, 1993 and 1997) were reviewed. Public Works Department (PWD) site base maps dated 1943, 1946, 1952, 1956, 1975, 1989, and 2006 (PWD, 1943, 1946, 1952, 1956, 1975, 1989, and 2006) and site building lists for 1965, 1976, 2003, and 2008 (PWD, 1965, 1976, 2003, and 2008) were also reviewed.

According to NAS Brunswick Environmental Department personnel, Building 551 has been used to house the Security Building generator since its initial construction, and hazardous waste was not generated at Building 551. The hazardous waste database tracking system does not have any record of hazardous waste generation or accumulation at Building 551.

According to the 2008 building list, Building 551 was constructed in 2005, and was added to the list in 2007. Building 551 is not present on any of the available base maps (1943 – 2006) or aerial photographs (1953 – 1997); however, the two nearby buildings, 55 and 51, are shown on the 2006 base map. The Google aerial shows Building 551 in its current location, with the attached awning.

The NAS Brunswick Transformer Database lists no electrical transformers for Building 551 (PWD, 2009).

The NAS Brunswick Master/Historical Aboveground and Underground Storage Tank Inventory lists no underground storage tanks (USTs) and lists two aboveground storage tanks (ASTs) for Building 551 (Environmental Department, 2009). One 250-gallon, double-walled steel AST (A55.0) that was installed in 2006 and stores No. 1 fuel oil for the generator is listed as active. A second tank listed as being installed and removed in 2006 was a 275-gallon, steel AST that stored diesel fuel for a generator.

In the NAS Brunswick and MEDEP spill records, no releases were identified for Building 551 (Environmental Department, 1988 and 1999; MEDEP, 2010).

No oil/water separators are listed for Building 551 on the NAS Brunswick Revised Oil/Water Separator List (PWD, 2008b).

Building 551 is not connected to the base-wide sanitary sewer system (Navy, 2006).

4. SITE VISIT AND INVESTIGATION

A site visit was conducted at Building 551 on November 23, 2010 by Mr. James Forrelli, P.E., Mr. Brian Geringer, and Ms. Donna Straker, of Tetra Tech. The purpose of the site visit was to verify information gathered during the records search and to collect information as necessary to prepare this closure report. Tetra Tech personnel were accompanied by Mr. D. Bruce Smith, the NAS Brunswick Hazardous Waste Manager. Building 551 was visually inspected for signs of hazardous waste generation or storage. Site visit observations, recorded on the attached Building Inspection Form⁽¹⁾, are summarized below:

- At the time of the site visit, Building 551 was unoccupied, in good condition, and was operational.
- No evidence of current or past hazardous waste generation was observed.
- No evidence of hazardous waste residues was observed. Minor staining was observed on the floor below the generator.
- No structural modifications, which could conceal signs of a past release, were observed.
- No hazardous waste storage areas or hazardous waste accumulation areas were observed.
- No floor drains were observed.
- The building exterior is unpainted, minimal peeling of the interior wall paint was observed.
- An emergency generator, manufactured by Caterpillar and rated as 45 kVA, was housed in Building 551.
- A 250-gallon, double-walled steel tank was located outside the building on a concrete pad, under the awning, and was connected to the generator by piping that runs through the northern wall of the building. No evidence of past leaks or spills at this tank was observed.
- No USTs or oil/water separators associated with Building 551 were observed.
- No transformers were observed at or near the Building 551 location.

Based on the records research findings and site visit observations, it was determined that neither further inspection nor sampling of Building 551 is required to complete the MEDEP hazardous waste closure requirements.

5. HAZARDOUS WASTE GENERATION AND STORAGE

Based on the records research, site visit observations, and NAS Brunswick Environmental Department personnel interviews, with the exception of universal waste, no hazardous waste generation, hazardous waste accumulation, or hazardous waste storage occurred at Building 551.

6. OTHER ENVIRONMENTAL CONSIDERATIONS

The only ASTs known to have been associated with Building 551 are discussed above in Sections 2 through 4. No other ASTs and no USTs or transformers are known to be associated with Building 551, and none were observed in the immediate vicinity of the building.

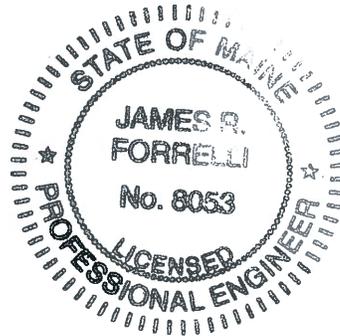
7. LIMITATIONS

This investigation of the hazardous waste closure requirement applies to the footprint of Building 551 (as shown on Figure 2). It does not apply to the land surrounding or the groundwater underlying Building 551.

8. CERTIFICATION

Based on the findings of this investigation, there have been no activities resulting in the generation, accumulation, or storage of hazardous waste at Building 551 at NAS Brunswick, Maine. Therefore, the hazardous waste closure of Building 551 was completed in accordance with the provisions of MEDEP Regulations Chapter 851, Standards for Generators of Hazardous Waste, Section 11.

James R. Forrelli
James Forrelli, P.E.
Senior Project Engineer
Tetra Tech NUS, Inc.



⁽¹⁾ The Building Inspection Form provides preliminary information collected during the building inspection, including information from visual observations, Navy personnel interviews, and from documents reviewed during file reviews. It does not reflect any additional information provided at a later date that further clarifies or corrects preliminary information collected during the building inspection and file reviews.

REFERENCES

Environmental Department, 1988. Environmental Incident Log - Book No. 1, July 1988 - November 1999, Naval Air Station Brunswick Environmental Department, Brunswick, Maine.

Environmental Department, 1999. Environmental Incident Log - Book No. 2, December 1999 - July 2005, Naval Air Station Brunswick Environmental Department, Brunswick, Maine.

Environmental Department, 2009. Master/Historical Aboveground and Underground Storage Tank Inventory. NAS Brunswick, Maine. February.

Environmental Department, 2010. Hazardous Waste Database, Naval Air Station Brunswick Environmental Department, Brunswick, Maine.

MEDEP, 2010. MEDEP Spills Database. Maine Department of Environmental Protection, Augusta, Maine.

PWD (Public Works Department), 1943. "US Naval Air Station, Brunswick, Maine, Building Site Plan Showing Locations of Underground Water Distribution Lines and Hydrants," NAS Brunswick, Maine. September 4.

PWD, 1946. "Map of US Naval Air Station, Brunswick, Maine, Showing conditions on June 30, 1946," NAS Brunswick, Maine. June 30.

PWD, 1952. "Map of US Naval Air Station, Brunswick, Maine, Showing conditions on June 30, 1952," NAS Brunswick, Maine. June 30.

PWD, 1956. General Station Map, Enclosure 2. , NAS Brunswick, Maine.

PWD, 1965. "Index of Structures, Department of the Navy Bureau of Yards & Docks Department," US Naval Air Station Brunswick, Maine. Updated May 13.

PWD, 1975. "General Development, Existing and Planned, Operations Area," US Naval Air Station, Brunswick, Maine, NAS Brunswick, Maine. Updated December 2.

PWD, 1976. "Index of Structures, Naval Facilities Engineering Command, Northeast Division Drawing No. 747 256," Naval Air Station Brunswick, Maine. Updated September 21.

PWD, 1989. "Existing Conditions Map. Public Works Department Drawing No. 2157" NAS Brunswick, Maine. Revised April 2.

PWD, 2003. "NAS Brunswick, Facility List," US Naval Air Station, Brunswick, Maine, NAS Brunswick, Maine. March 9.

PWD, 2006. Brunswick Naval Air Station, NAS Brunswick, Maine.

PWD, 2008a. "Draft NAS Brunswick, Facility List," US Naval Air Station, Brunswick, Maine, NAS Brunswick, Maine. March.

PWD, 2008b. Revised Oil/Water Separator List, Table J-C4(a). NAS Brunswick, Maine. January 1.

PWD, 2009. Master Transformer Database. NAS Brunswick, Maine. June 24.

Sewall (James W. Sewall Company), 1953. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. June 29.

Sewall, 1958. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. October 9.

Sewall, 1978. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. November 22.

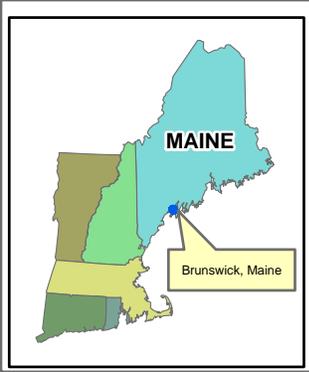
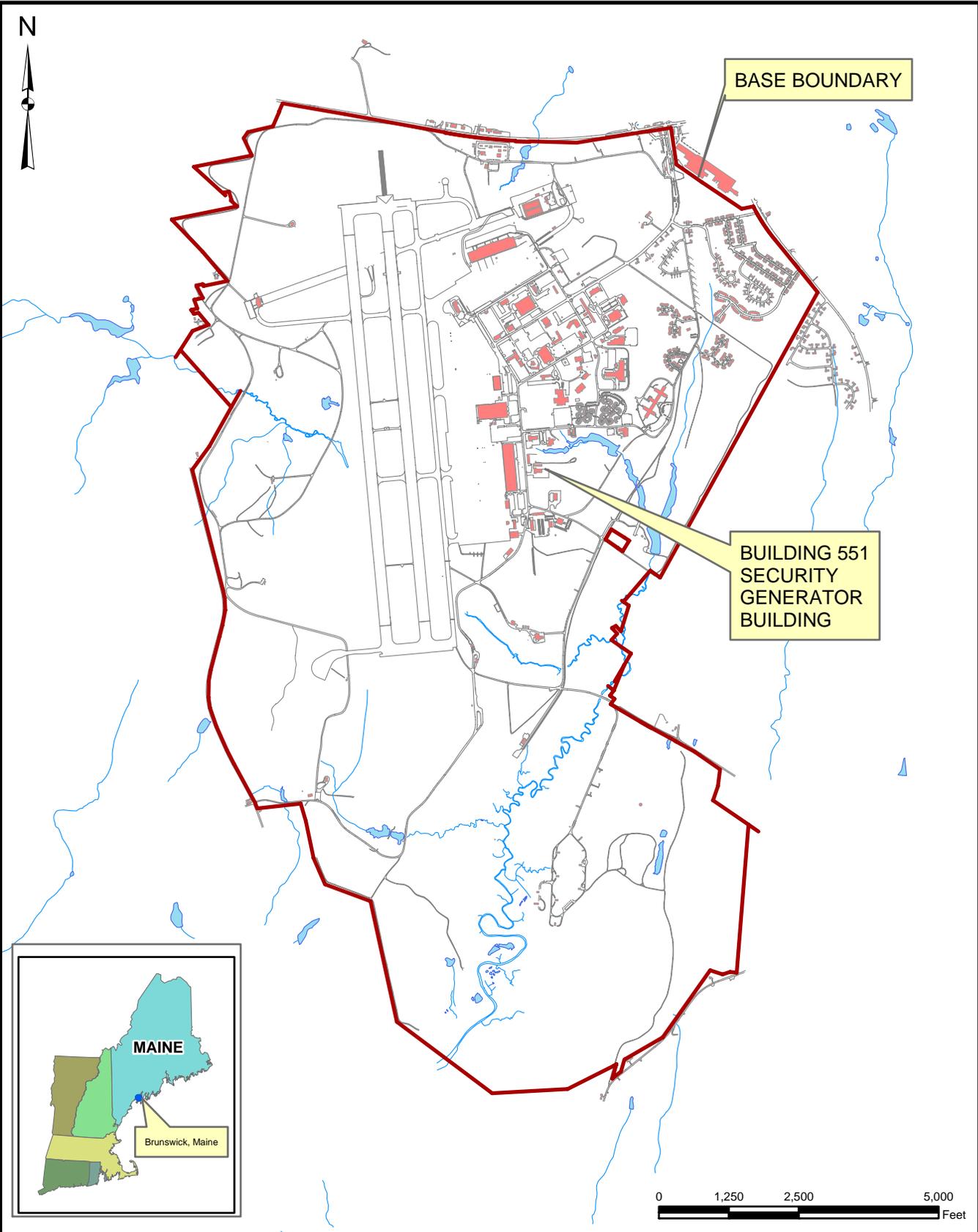
Sewall, 1981. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. October 17.

Sewall, 1984. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. April 23.

Sewall, 1989. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. April 2.

Sewall, 1993. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. November 8.

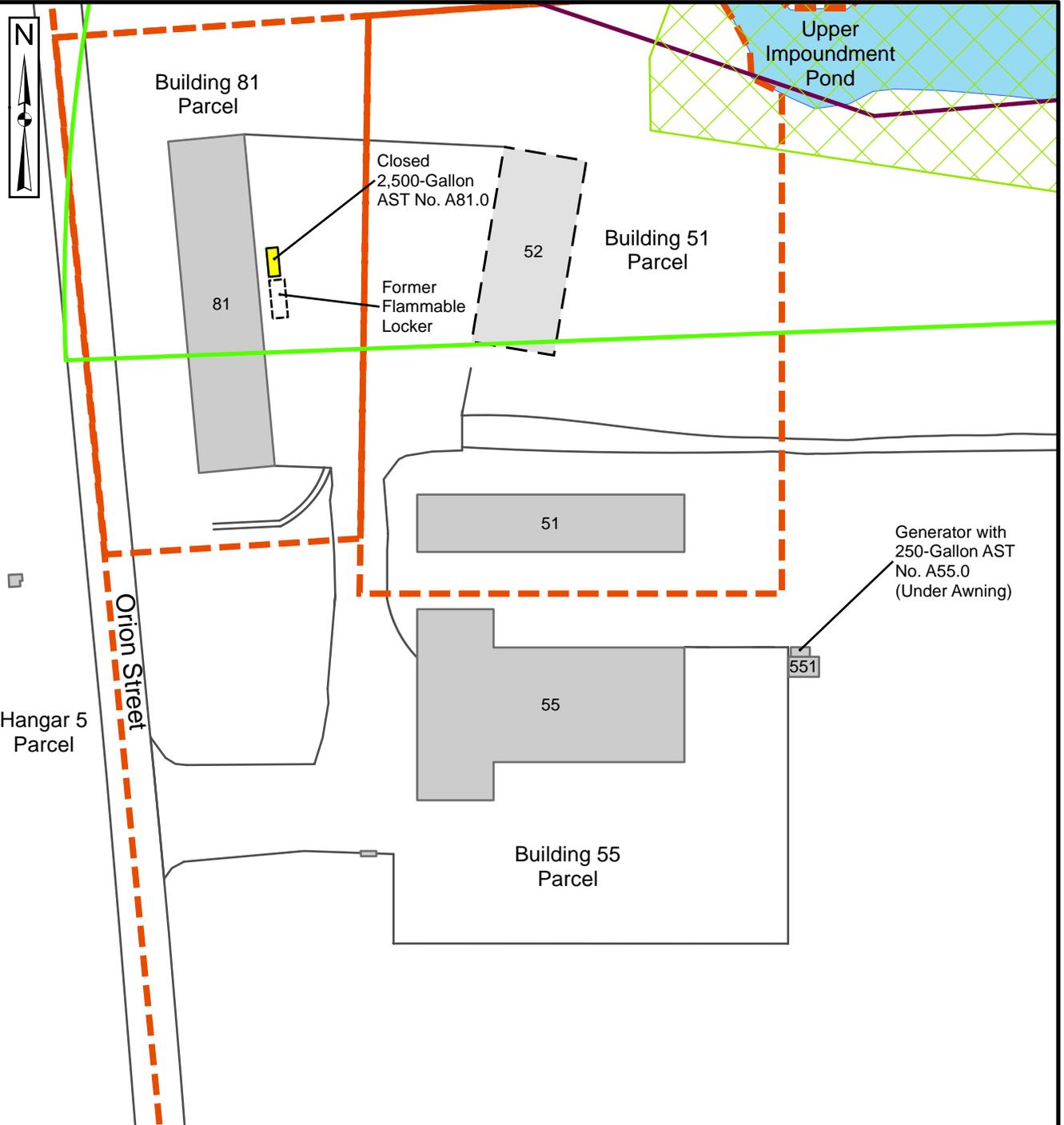
Sewall, 1997. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. May 27.



Tetra Tech NUS, Inc.

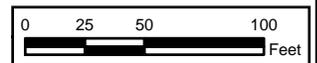
SITE LOCATION MAP
 BUILDING 551 - SECURITY GENERATOR BUILDING
 RCRA PARTIAL CLOSURE REPORT
 NAVAL AIR STATION BRUNSWICK, MAINE

SCALE AS NOTED	
FILE I:\WASB_BLDG_551_LOCUS.MXD	
REV 0	DATE 12/17/10
FIGURE NUMBER 1	



Legend

- Site 9 Boundary
- Parcel Boundary
- Skeet Range - pre-1950
- Likely Shotfall Zone



Building 551 Corner	Northing	Easting
Northeast	385356.428	3015658.261
Southeast	385345.928	3015658.261
Southwest	385345.928	3015642.261
Northwest	385356.428	3015642.261

Coordinates are in NAD 1983, Maine West, Feet

 Tetra Tech NUS, Inc.	SITE MAP BUILDING 551 - SECURITY GENERATOR BUILDING RCRA PARTIAL CLOSURE REPORT NAVAL AIR STATION BRUNSWICK, MAINE	SCALE AS NOTED
		FILE L:\NASB_BLDG_551_SITE_MAP.MXD
		REV DATE 0 12/21/10
		FIGURE NUMBER FIGURE NO. 2

**HWSA INSPECTION REPORT
HAZARDOUS WASTE STORAGE AREAS CLOSURE
NAS BRUNSWICK
BRUNSWICK, MAINE
CTO WE22**

Inspection: Date: 11/23/10

Personnel: Brian Geringer / Jim Forreli, P.E./ Donna Straker

Weather: Damp, Cloudy/Foggy, and temperature in the 40s

GENERAL BUILDING INFORMATION / USES

Building Name: Security Generator Building

Function: Emergency Generator Enclosure

Size: 105 SF

Year of Construction: 2005

- Slab on grade foundation. One-room wood-frame building with wood exterior
- Wood awning on north side of building provides shelter for 250-gal AST on concrete slab
- Interior – painted gypsum wallboard (sheetrock) walls, concrete floor
- Observed minimum peeling paint on interior wall
- Contains a generator – Nameplate indicates that it is Caterpillar, rated at 45 kVA
- Building is unheated

HWSA INSPECTION / CONDITION

The building and the enclosed generator appeared to be in good condition. No hazardous materials or hazardous waste was observed in or near the building. No major staining or signs of a spillage was observed.

POTENTIAL PCB-CONTAINING TRANSFORMERS

No transformers were observed at or near Building 551.

APPLICABLE REPORTS / DOCUMENTS

Available historical aerial photos and base maps were reviewed for past uses:

1943 - 1989 maps – No buildings are visible on this parcel of land.

1953 – 1997 aerials – No buildings are visible in this area

2006 map – The current buildings 51 and 55 are shown, building 551 is not present on the map

2008 building list – Presents the first listing of Building 551 as the “Security Generator Building”

Current Google aerial – Current site configuration.

According to NASB records the generator at building 551 is associated with a 250-gallon DWS steel AST (A55.0) that stores No.1 fuel oil (installed in 2006, active). Another 275-gallon SWS steel AST (A55.1) that stored diesel was also listed as installed and removed in 2006. No USTs were listed at or near Building 55. The MEDEP spills database did not report any leaks related to these ASTs.

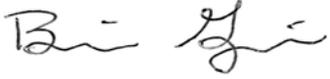
No oil-water separators (OWS) or septic tanks were present at this parcel according to NASB records.

HAZARDOUS WASTE STORAGE RECORDS

No hazardous waste was historically stored at Building 750 according to NAS Brunswick Hazardous Waste Manager, D. Bruce Smith.

MISCELLANEOUS NOTES

The Tetra Tech personnel were accompanied on the inspection by D. Bruce Smith Hazardous Waste Manager.

INSPECTOR SIGNATURE: 

PHOTOGRAPHS



No.1 Building 551 – Security Generator Building, NAS Brunswick November 23, 2010
North and west elevations (looking towards southeast); AST on northern side of building under awning



No.2 Building 551 – Security Generator Building, NAS Brunswick November 23, 2010
North and east elevations; looking west towards Building 55 in background



No.3 Building 551 – Security Generator Building, NAS Brunswick
250-gallon double-walled steel AST under awning

November 23, 2010



No.4 Building 551 – Security Generator Building, NAS Brunswick
Security Generator Building interior; generator and control panel

November 23, 2010