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NAS BRUNSWICK
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FINAL RESOURCE CONSERVATION AND RECOVERY ACT PARTIAL CLOSURE REPORT
FOR BUILDING 626 WITH TRANSMITTAL LETTER NAS BRUNSWICK ME
3/14/2011
NAS BRUNSWICK

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

March 14, 2011

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 626

Dear Mr. Vigneault:

A copy of the Final RCRA Partial Closure Report for Building 626 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,



For LISA M. JOY
Environmental Director

Enclosure: (1) Final RCRA Partial Closure Report for Building 626

Copy to:
NAVFAC Mid-Atlantic (B. Abraham)
NAS Brunswick (M. Fagan/D. Smith)
EPA Region I (M. Daly)
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BRAC PMO NE (P. Burgio)

RCRA PARTIAL CLOSURE REPORT
for
BUILDING 626 – INERT ORDNANCE STORAGE
NAVAL AIR STATION BRUNSWICK, MAINE
USEPA IDENTIFICATION NUMBER ME8170022018
MARCH 2011

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 626 at Naval Air Station Brunswick (NAS Brunswick).

2. PROPERTY DESCRIPTION

Weapons Building 626, Inert Ordnance Storage, is part of the NAS Brunswick Advanced Undersea Weapons (AUW) Area, located in the southern portion of NAS Brunswick, east of the southernmost portion of the runway (Figure 1). The building is within the RCRA Partial Closure Weapons Administration Area.

Building 626 is located to the north of the unnamed access road to the AUW Area at NAS Brunswick (Figure 2). Building 626 is bordered to the north-northwest by Installation Restoration Program (IRP) Sites 1 and 3 (Orion Street Landfill-North) and the double perimeter security fence; to the east by the AUW parking area, the double perimeter security fence, and Merriconeag Road beyond; to the southeast by the access road, Buildings 539 (Weapons Administration Building) and 125 (Weapons Guard Tower), and the double perimeter security fence beyond; to the south by the access road and the security fence beyond; and to the west by Buildings 642 (Weapons Administration Building) and 643 (Weapons Sentry House), and the double perimeter security fence beyond.

Building 626 was constructed in 1973. The entire building is earth-covered and covers an area of 3,198 square feet. (This square footage includes the area as outlined by the outer, earth-covered footprint [Figure 2]). The building is comprised of three separate structures or rooms, 626A through 626C, each with approximate dimensions of 40 feet by 26 feet, and each featuring a ventilation stack through the roof. Each room is constructed with a metal-arch-roof and reinforced-concrete end wall on a concrete slab foundation. The front of each of the three structures is constructed of a reinforced-concrete retaining wall fitted with a security/blast door. A telephone box and a security system enclosure are mounted on the exterior wall, to the west of each of the three blast doors. Building 626 is not heated.

Photographs of the building exterior and interior are provided as an attachment to this report.

The investigation conducted under this report applies only to the building footprint of Building 626 (footprint as shown on Figure 2). The Weapons Administration Area RCRA Partial Closure Report addresses the land surrounding and the groundwater underlying Building 626.

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 626, 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. Additional aerial photographs for the parcel dated 1940, 1959, 1965, 1966, 1972, 1978, and 1980 were also reviewed (U.S. EPA, 1987). Public Works Department (PWD) site base maps dated 1943, 1946, 1952, 1956, 1957, 1975, 1978, 1979, 1989, and 2006 (PWD, 1943, 1946, 1952, 1956, 1957, 1975, 1978, 1979, 1989, and 2006a) and site building lists for 1950, 1965, 1976, 2003, 2006 and 2008 (PWD, 1950, 1965, 1976, 2003, 2006b, and 2008a) were also reviewed.

The 1956 historical plan is the earliest to show the Building 626 area. This plan shows Merriconeag Road to the west of the current AUW area; no other area features are present. Beginning with the 1957 historical plan, Building 539 and Building 540 (AUW Sentry House) are present, along with the perimeter security fence. No further changes are noted until the 1978 aerial photograph, which shows Buildings 626, 627, and 628 (each later renamed Building 626A, 626B, and 626C) and Buildings 642 and 643 in their current locations. The double perimeter security fence had been expanded to the north and west to include these buildings. Building 540 is no longer present. No further changes are noted in site maps or aerial photographs dated after 1978.

In the 1983 Initial Assessment Survey (IAS), the use of Buildings 626 through 628, (now 626A through 626C), is listed as "special weapons magazine". Also according to the 1983 IAS, the Department of Defense (DOD) Explosives Safety Board in Alexandria, Virginia had conducted annual surveys at NAS Brunswick for the previous 5 years. The purpose of the surveys was to inspect conditions with respect to maintenance, disposal, handling, transportation, and storage of ammunition and explosives. No contaminated areas or improper disposal practices were noted at the base during these surveys (Weston, 1983).

Based on a review of the historical building lists and on discussions with NAS Brunswick Public Works Department (PWD) personnel, since its construction in 1973, Building 626 was used only as a magazine, including special weapons storage. There is no record of hazardous waste generation at Building 626 (Environmental Department, 2010).

No sanitary facilities are present at Building 626. The area where the building is located is not served by the base-wide sanitary sewer system and no septic systems were identified as associated with Building 626 (Navy, 2006). No oil/water separator (OWS) has been associated with Building 626 (PWD, 2008b).

According to MEDEP and NAS Brunswick spill records, no spills were reported in the vicinity of Building 626 (Environmental Department, 1999; Environmental Department 2005; and MEDEP, 2010).

The NAS Brunswick Removed Transformer Database lists no electrical transformers associated with the current Building 626 (PWD, 2009).

The NAS Brunswick Aboveground Storage Tank (AST) and Underground Storage Tank (UST) inventory records for Building 626 indicate that no ASTs or USTs have been associated with Building 626 (Environmental Department, 2009).

According to Mr. Brion Hall, NAS Brunswick Explosive Safety Officer, Hazard Class 1.1 explosives were stored in Building 626. Hazard Class 1.1 explosives are those with a mass explosion hazard such as composition 4 (C4), a plastic explosive. Due to weapons security issues, no additional information is available on quantities and types of explosives stored.

4. SITE VISIT AND INVESTIGATION

Site visits were conducted for Building 626 on August 31, 2010, by Mr. James Forrelli, P.E., and Mr. Brandon Smith, P.E., and on March 9, 2011, by Mr. James Forrelli, P.E., and Mr. James

Chen, E.I.T., of Tetra Tech. The purpose of the visits was to verify information gathered during the records search and to collect additional information as necessary to prepare this closure report. Tetra Tech personnel were accompanied by Mr. D. Bruce Smith, the NAS Brunswick Hazardous Waste Manager. The building 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 inspection, Building 626 was vacant and in good condition.
- No evidence of current or past hazardous waste generation was observed.
- No signs of a past release (staining, unusual odors, stressed vegetation, etc.) were observed.
- No modifications to the structure, which may conceal signs of a past release, were observed.
- Some localized rusted areas on the exterior of the blast doors, where paint had deteriorated, were observed. No loose or flaking paint was observed on the interior of the blast doors.
- No floor drains were observed.

Based on the records research findings and site visit observations, it was determined that neither further inspection nor sampling of Building 626 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, no hazardous waste generation, hazardous waste accumulation, or hazardous waste storage was conducted at Building 626.

6. OTHER ENVIRONMENTAL CONSIDERATIONS

No tanks or transformers were historically associated with Building 626, none were observed in the immediate vicinity of Building 626, and none are known to exist in this area.

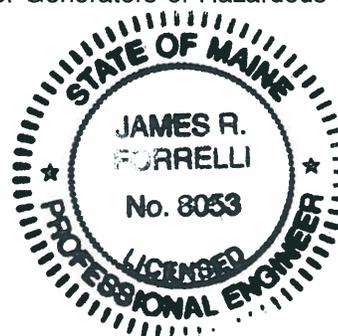
7. LIMITATIONS

This investigation of the hazardous waste closure requirement applies to the footprint of Building 626 (as shown on Figure 2), only. It does not apply to the land surrounding or the groundwater underlying Building 626.

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 626, NAS Brunswick, Maine. Therefore, the hazardous waste closure of Building 626 was completed in accordance with the provisions of MEDEP Regulations Chapter 851, Standards for Generators of Hazardous Waste, Section 11.


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

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

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

Environmental Department, 2002. 1999 - 2002 Hazardous Waste Database, Naval Air Station Brunswick Environmental Department, Brunswick, Maine.

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

Mid-Coast Regional Redevelopment Authority, 2006. BNAS Reuse Master Plan Property Condition Assessment.

Navy (Department of the Navy, Base Realignment and Closure Program Management Office), 2006. "Final (Revision 2) Environmental Condition of Property Report for the Naval Air Station, Brunswick, Maine," NAS Brunswick, Maine. May 30.

PWD (Public Works Department), 1943. "Building Site Plan Showing Location of Underground Water Distribution Lines and Hydrants," US 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, 1957. "Map of US Naval Air Station, 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.

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

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

PWD, 2006b. "NASB Facility List, Naval Air Station, Brunswick, Maine". March.

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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.

PWD, 2010. Removed Transformer Database. NAS Brunswick, Maine.

Sewall (James W. Sewall Company), 1940. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. September 28.

Sewall, 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, 1959. 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.

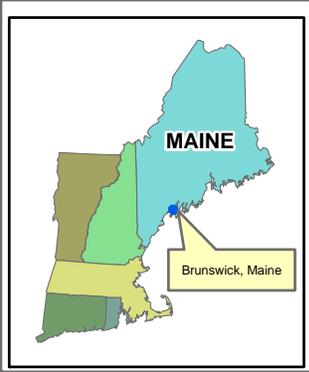
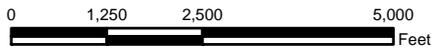
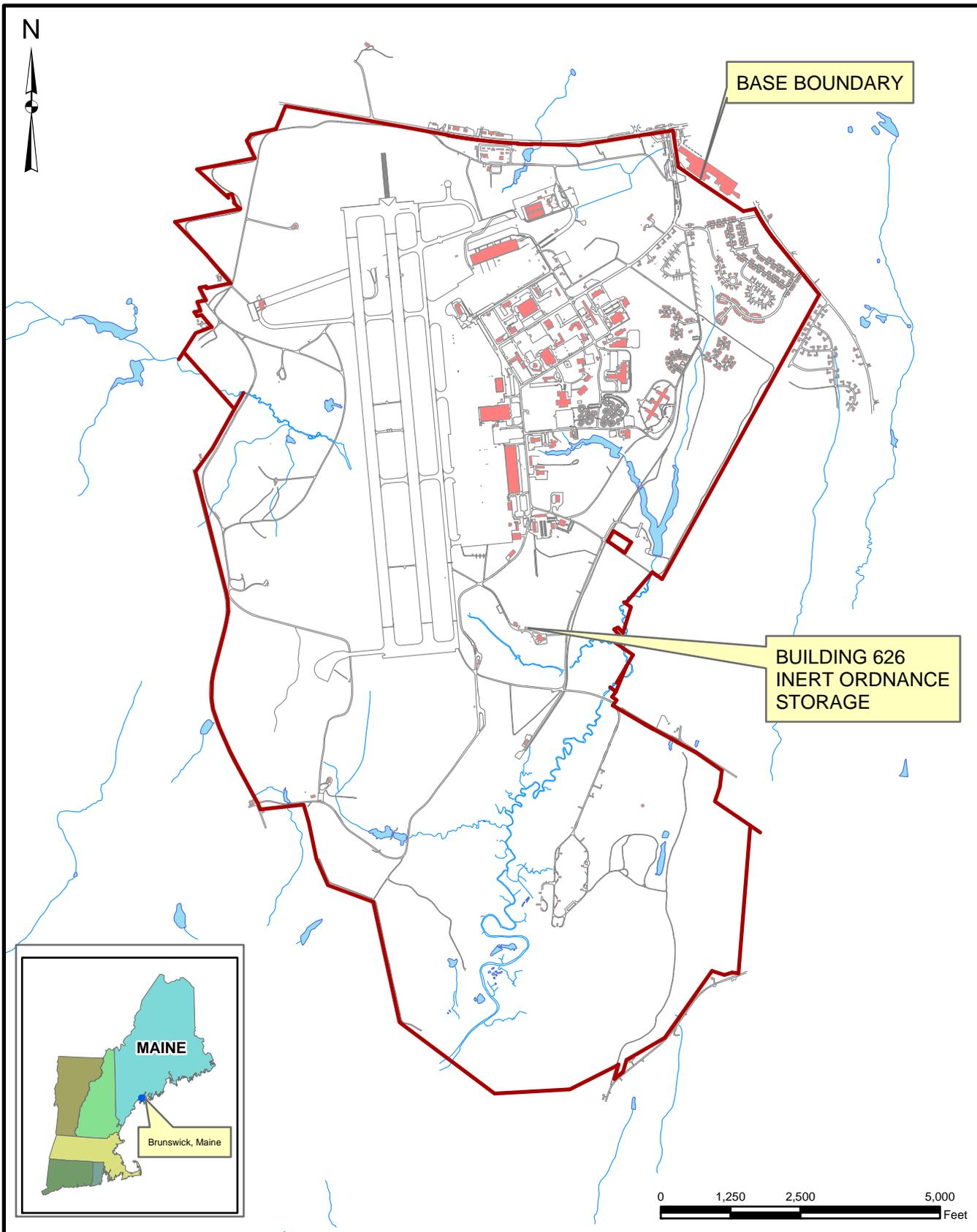
Sewall, 1989. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. April 2.

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.

U.S. EPA (Environmental Protection Agency), 1987. Volume 1 and 2, Site Analysis Brunswick Naval Air Station, Brunswick, Maine. April.

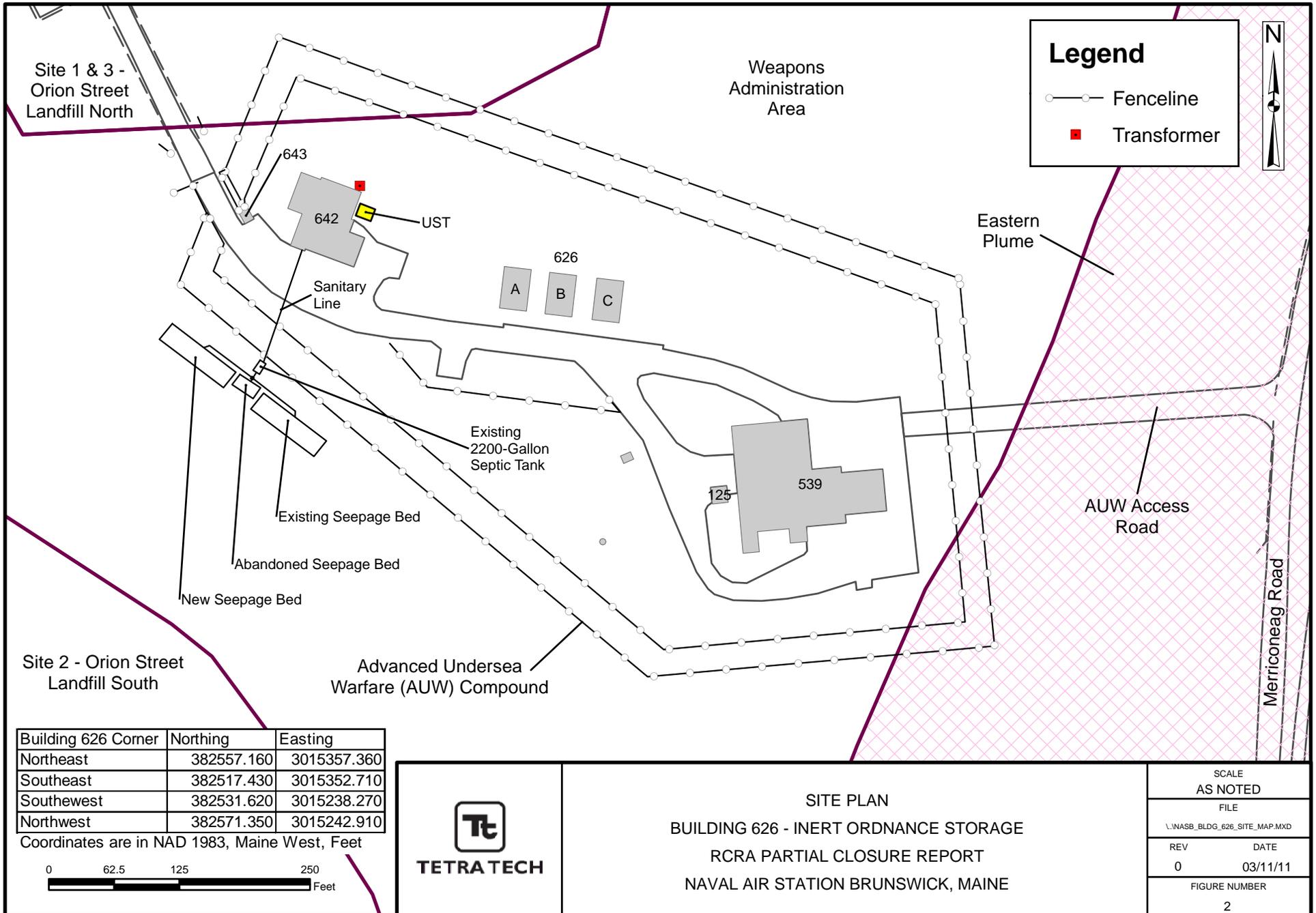
Weston (Roy F. Weston, Inc.), 1983. Initial Assessment Survey. Naval Air Station, Brunswick, Maine. June.



Tetra Tech NUS, Inc.

SITE LOCATION MAP
 BUILDING 626 - INERT ORDNANCE STORAGE
 RCRA PARTIAL CLOSURE REPORT
 NAVAL AIR STATION BRUNSWICK, MAINE

SCALE AS NOTED	
FILE I:\NASB_BLDG_626_LOCUS.MXD	
REV 0	DATE 03/11/11
FIGURE NUMBER 1	



SITE PLAN
BUILDING 626 - INERT ORDNANCE STORAGE
RCRA PARTIAL CLOSURE REPORT
NAVAL AIR STATION BRUNSWICK, MAINE

SCALE AS NOTED	
FILE I:\NASB_BLDG_626_SITE_MAP.MXD	
REV 0	DATE 03/11/11
FIGURE NUMBER 2	

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

Inspection Date: 08/31/10 & 03/09/11

Personnel: James Forrelli, P.E. / Brandon Smith, P.E.

Weather: Clear, 70s / Clear, 20s

GENERAL BUILDING INFORMATION / USES

Building Name: Inert Ordnance Storage

Function: Munitions magazine.

Size: 3,198 SF

Year of Construction: 1973

Building 626 is located in the southern portion of NASB Brunswick in the Advanced Undersea Weapons (AUW) compound on north side of the AUW access road; and is bordered to the north by IRP Site 11; to the east by the AUW area parking lot and Merriconeag Road beyond, and to the west by Building 642 (Weapons Administration Building) and 643 (Weapons Sentry House), and to the south by Building 125 (Weapons Guard Tower) and 539 (Weapons Administration Building). It was constructed in 1973 and served as a weapons magazine for its entire history. Building 626 consists of a 3,198 square foot series of three (labeled 626A through 126C) metal-arch roof structures with reinforced concrete end wall on a concrete slab foundation and is covered with earth. The front of the structure is constructed of a reinforced concrete retaining wall fitted with security/blast doors. A telephone box and a security system enclosure are mounted on the exterior wall, to the west of each blast door.

The building interior consists of three rooms with approximate dimensions of 40 feet by 26 feet. The building features a ventilation stack through the roof of each room.

Building 626 is not heated.

HWSA INSPECTION / CONDITION

At the time of inspection, Building 626 was in good condition; each of the three sections was empty.

No record of hazardous waste stored at Building 626.

No evidence of current or past hazardous waste generation activities was observed.

No evidence of hazardous waste residues was observed.

No signs of a past release (staining, unusual odors, stressed vegetation, etc.) were observed. No modifications to the structure, which may conceal signs of a past release, were observed.

No hazardous waste storage areas or hazardous waste accumulation areas were observed.

No peeling paint was observed on the steel blast doors.

POTENTIAL PCB-CONTAINING TRANSFORMERS

No transformers are listed in the NASB transformer database for the Building 626.

APPLICABLE REPORTS / DOCUMENTS

Available historical aerial photos and base maps were reviewed for past uses:
1943 Map – Area not shown.
1946 Map – Area not shown.
1952 Map – Area not shown.
1956 Map – Merriconeag Road is shown to the west of the AUW compounds area. No buildings present.
1957 Map – B539 is shown in current location with Building 540 (AUW Sentry House) to the north and perimeter fencing shown. B626 not present..
1958 aerial – B539 and B540 are shown with double security fence around the AUW area.
1959-1972 aerial – Same as 1958 aerial.
1969 Map – Same as 1957 map.
1975 Map – Area not shown.
1978 Map – B626-628 are now shown northwest of B539 and perimeter fence has been expanded to include B626-628.
1978 aerials –B642 and B643 and B626-628 and 642 and 643 are present.
1979 Map – Area not shown.
1980 and 1981 aerials – Same as 1978 aerial.
1983 Map – Area not shown.
1984 aerial – Same as 1981 aerial; B125 (Sentry tower) now shown west of B539.
1989 Map – Same as 1978 map; B642 and 643 are to the west of B626 now and perimeter fence has been expanded to include B642 and B643.
1989 aerial – Same as 1984 aerial.
1993 aerial - same as 1989 aerial.
1997 aerial - same as 1993 aerial.
2006 Map – Building 626 shown in its current location.

There are no above ground storage tanks (ASTs), underground storage tanks (USTs) or oil-water separators (OWS) registered to Building 626.
No spills were reported in the MEDEP or NASB spill logs.
No sanitary facilities are present at Building 626.

HAZARDOUS WASTE STORAGE RECORDS

No hazardous waste was historically stored at Building 626 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. Building 626 was previously listed as Building 626, 627, and 628 (Special Weapons Magazine) until the 2006 historical building list.

(SEE ATTACHED PHOTOGRAPHS)

INSPECTOR SIGNATURE: _____ 

PHOTOGRAPHS



No. 1 Building 626 – Inert Ordnance Storage, NAS Brunswick
Building 626A through C southeastern elevation

August 31, 2010



No. 2 Building 626 – Inert Ordnance Storage, NAS Brunswick
Building 626A through C southwestern elevation

August 31, 2010



No. 3 Building 626 – Inert Ordnance Storage, NAS Brunswick
Building 626B exterior blast door

March 9, 2011



No. 4 Building 626 – Inert Ordnance Storage, NAS Brunswick
Building 626A interior

March 9, 2011



No. 5 Building 626 – Inert Ordnance Storage, NAS Brunswick
Building 626B interior

March 9, 2011



No. 6 Building 626 – Inert Ordnance Storage, NAS Brunswick
Building 626C interior

March 9, 2011