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NAS BRUNSWICK  
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FINAL RESOURCE CONSERVATION AND RECOVERY ACT PARTIAL CLOSURE REPORT  
FOR BUILDING 606 LIQUID OXYGEN CART SHED NAS BRUNSWICK ME  
3/1/2010  
TETRA TECH NUS

**RCRA PARTIAL CLOSURE REPORT**  
**for**  
**BUILDING 606 – LOX CART SHED**  
**NAVAL AIR STATION BRUNSWICK, MAINE**  
**USEPA IDENTIFICATION NUMBER ME8170022018**  
**MARCH 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) Resource Conservation and Recovery Act (RCRA) or hazardous waste closure requirements have been completed for Building 606 at Naval Air Station Brunswick (NAS Brunswick).

## **2. PROPERTY DESCRIPTION**

Building 606, known as the LOX Cart Shed, is located just east of the Hangar 6 apron in the northern portion of NAS Brunswick (see Figure 1). Building 606 was used to store non-motorized tow-behind liquid oxygen (LOX) carts that were used in the servicing of aircraft on the apron. The construction date is unknown; however, based upon review of historical site plans and aerial photographs, it appears that the building was constructed sometime after 2006. The one-room building consists of a 120 square-foot, one-story structure on a concrete slab foundation. A site plan is provided as Figure 2. Building 606 is unheated and has no electrical service. Photographs of Building 606 are provided in the attachment.

## **3. PROPERTY HISTORY AND RECORDS RESEARCH**

The Tetra Tech NUS, Inc. (TtNUS) 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 606 including past use and operations at that location.

According to NAS Brunswick Environmental Department personnel, since its construction, the sole use of Building 606 has been as the LOX Cart Shed. There is no record of hazardous waste operations at Building 606.

Records reviewed include: historical aerial photographs; the NAS Brunswick Other Environmental Liabilities (OEL) Database; area-specific reports; facility plans and drawings; and hazardous operation records. Aerial photographs dated 1958, 1978, 1984, 1989, 1993 and 1997 (all produced by James W. Sewall Company) were reviewed along with Public Works Department site base maps dated 1946, 1952, 1956, 1962, 1983, 1989, and 2006 to provide historical information.

Building 606 does not appear on available historical site plans or aerial photographs through 2006. Historic site plans between 1946 and 1956 show Hangar 3 to the west of the approximate current location of Building 606. On the 1958 aerial photograph and the 1962, 1983 and 1989 site plans, aircraft are parked in the approximate current location of Building 606. On the 1978, 1984 and 1989 aerial photographs Hangar 3 is present to the west; however, no aircraft are shown in the approximate location of Building 606. The 2006 site plan shows Hangar 6 to the northwest of approximate current location of Building 606 and Hangar 3 is no longer present.

According to the NAS Brunswick database, no transformers are associated with Building 606. No underground storage tanks (USTs) or above ground storage tanks (ASTs) have been utilized at Building 606 according to NAS Brunswick records. No accidental releases were identified in the NAS Brunswick or MEDEP spill records relating to Building 606.

#### 4. SITE VISIT AND INVESTIGATION

A site visit was conducted by Mr. Brandon Smith, P.E., Ms. Chelsea Fellows-Swenson and Ms. Mindi Messmer, of TtNUS on January 21, 2010 and on January 22, 2010 by Mr. Brandon Smith, P.E., Ms. Chelsea Fellows-Swenson and Mr. James Forrelli, P.E. of TtNUS. The purpose of these visits was to verify information gathered during the records search and to collect additional information as necessary to prepare this RCRA Partial Closure Report. TtNUS personnel were accompanied by Mr. D. Bruce Smith, the NAS Brunswick Hazardous Waste Manager. The Building 606 location was visually inspected for signs of hazardous waste generation or storage activity. Photographs taken during the site visit are provided in Attachment A. Site visit observations, recorded on the attached Building Inspection Form<sup>(1)</sup>, are summarized below:

- The building was empty at the time of the site visit and appeared in good condition.
- 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,, etc.) or structural modifications that could conceal signs of a past release were observed.
- No hazardous waste storage or accumulation areas were observed.
- No potential PCB-containing transformers were identified during the site inspection.

Based on the records research findings and site visit observations, it was determined that neither further inspection nor sampling of Building 606 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 activity or hazardous waste accumulation or storage activity was conducted at Building 606.

#### 6. OTHER ENVIRONMENTAL CONSIDERATIONS

No USTs or ASTs have been utilized at Building 606 according to NAS Brunswick records. Two ASTs containing liquid nitrogen and oxygen were present south of Building 606. No other tanks were observed in the immediate vicinity of Building 606.

#### 7. LIMITATIONS

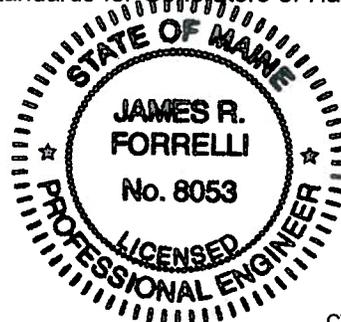
This investigation of the hazardous waste closure requirement applies to the Building 606 footprint (as shown on Figure 2) only. It does not apply to the land surrounding or the groundwater underlying Building 606.

#### 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 the Building 606, NAS Brunswick, Maine. Therefore, the hazardous waste closure of Building 606 was completed in accordance with the provisions of MEDEP Regulations Chapter 851, Standards for Generators of Hazardous Waste, Section 11.



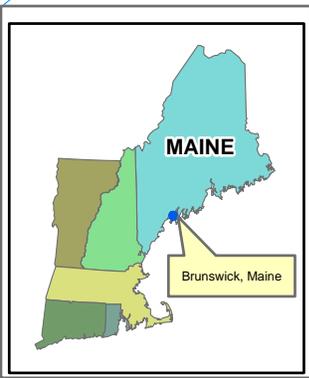
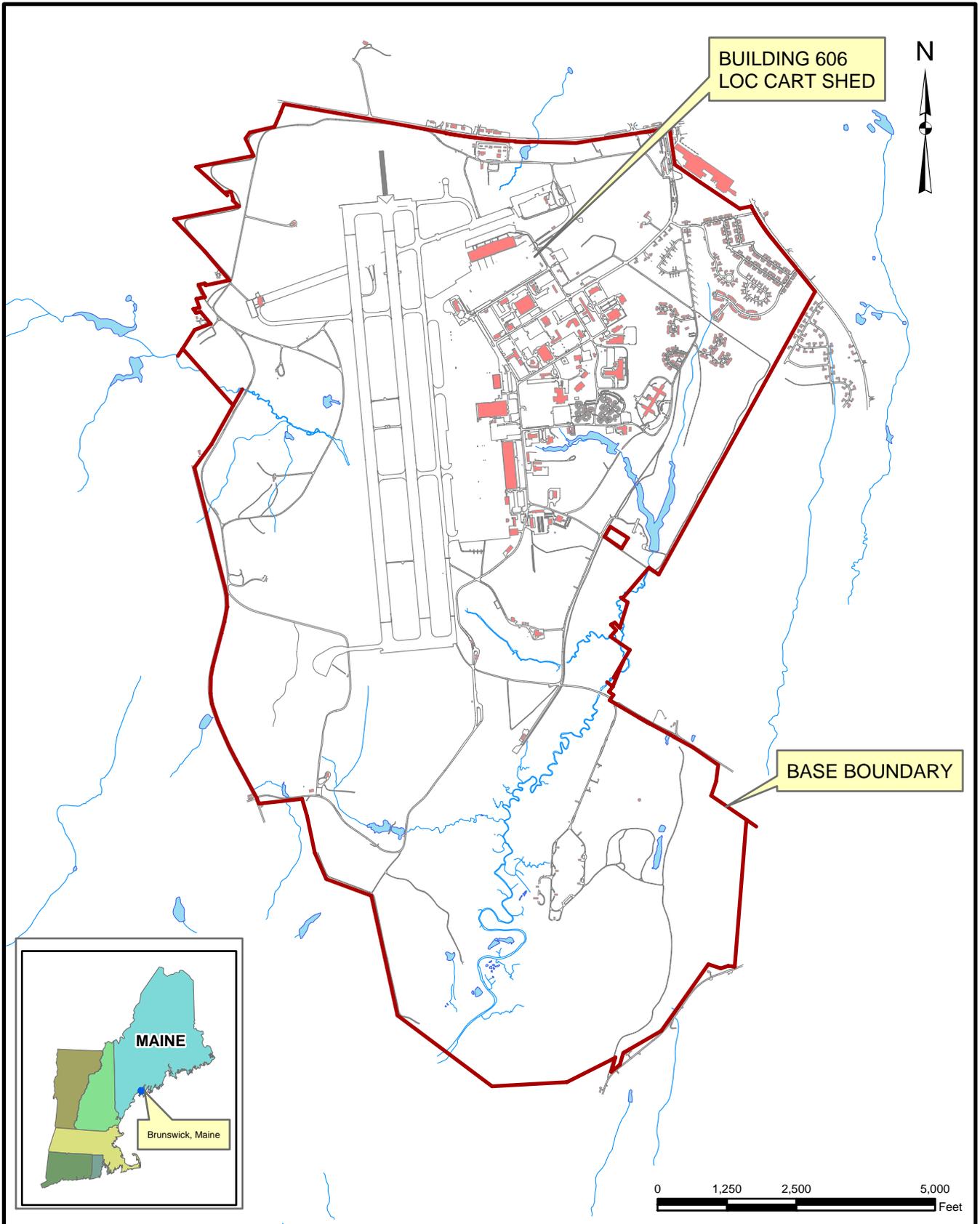
James Forrelli, P.E.  
Senior Project Engineer  
Tetra Tech NUS, Inc.



<sup>(1)</sup> 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**

- James W. Sewall Company, 1958. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, ME. October 9, 1958.
- James W. Sewall Company, 1978. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, ME. November 22, 1978.
- James W. Sewall Company, 1984. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, ME. April 23, 1984.
- James W. Sewall Company, 1989. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, ME. April 2, 1989.
- James W. Sewall Company, 1993. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, ME. November 8, 1993.
- James W. Sewall Company, 1997. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, ME. May 1997.
- BNAS Reuse Master Plan Property Condition Assessment. Mid-Coast Regional Redevelopment Authority, Brunswick, ME. 2006.
- Master/Historical Underground Storage Tank Inventory. NAS Brunswick, Maine. 02/05/96.
- Public Works Department, 1946. "Map of US Naval Air Station, Brunswick, Maine, Showing conditions on June 30, 1946," NAS Brunswick, Maine. June 30, 1946.
- Public Works Department, 1952. "Map of US Naval Air Station, Brunswick, Maine, Showing conditions on June 30, 1952," NAS Brunswick, Maine. June 30, 1952.
- Public Works Department, 1956. General Station Map, Enclosure 2. , NAS Brunswick, Maine. 1956.
- Public Works Department, 1962. "Map of Streets," US Naval Air Station, Brunswick, Maine, NAS Brunswick, Maine. 1962.
- Public Works Department, 1983. "Existing Conditions Map. Public Works Department Drawing No. 2157" NAS Brunswick, Maine. May 5, 1983.
- Public Works Department, 1989. "Existing Conditions Map. Public Works Department Drawing No. 2157" NAS Brunswick, Maine. Revised April 2, 1989.
- Public Works Department, 2006. Brunswick Naval Air Station, NAS Brunswick, Maine. 2006.



**SITE LOCATION MAP**  
**BUILDING 606 - LOX CART SHED**  
**RCRA PARTIAL CLOSURE REPORT**  
**NAVAL AIR STATION BRUNSWICK, MAINE**

SCALE AS NOTED	
FILE	
I:\NASB_BLDG_606_LOCUS.MXD	
REV	DATE
0	03/10/10
FIGURE NUMBER	
1	



Building Corner	Northing	Easting
North	389143.294	3015494.525
East	389126.584	3015502.760
South	389120.104	3015490.642
West	389135.539	3015481.582

Coordinates are in NAD 1983, Maine West, Feet



TETRA TECH NUS, INC.

SITE LOCATION MAP  
 BUILDING 606 – LOX CART SHED  
 RCRA PARTIAL CLOSURE REPORT  
 NAVAL AIR STATION BRUNSWICK, MAINE

SCALE	AS NOTED
FILE	\\NASB_BLDG_151&512_ORTHO.DWG
REV	0
DATE	02/02/10
FIGURE NUMBER	FIGURE NO. 2

**BUILDING INSPECTION FORM  
RCRA PARTIAL CLOSURE PROGRAM  
NAS BRUNSWICK  
BRUNSWICK, MAINE  
CTO WE22**

**Inspection Date:** 1/22/2010  
**Personnel:** James Forrelli, P.E. / Brandon Smith, P.E. / Chelsea Fellows-Swenson  
**Weather:** Clear, 20s

**GENERAL BUILDING INFORMATION / USES**

Building Name: LOX Cart Shed  
 Function: Storage of liquid oxygen (LOX) carts  
 Size: 200 SF  
 Year of Construction: Unknown

Building 606 is located southeast of Hangar 6 on the apron at NAS Brunswick. Construction date is unknown and it served as a LOX cart storage shed for its entire history. Building 606 consists of a 120 square-foot, one story concrete building on a slab foundation.

Building 606 was used as a LOX cart storage shed. Building 606 is one room and stored only non-motorized tow-behind LOX carts.

No hazardous waste was generated during the operations in Building 606, according to NASB personnel.

Building 606 is unheated and has no electrical service.

**BUILDING INSPECTION / CONDITION**

No record of hazardous waste stored at Building 606.

The building was not occupied at the time of the site visit and appeared in good condition. The interior was empty.

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 transformers that could be a potential source of polychlorinated biphenyls (PCBs) contamination in the event of a leak were observed.

**HAZARDOUS WASTE STORED / GENERATED**

No hazardous waste was stored or generated at Building 606, according to NASB personnel.

**POTENTIAL PCB-CONTAINING TRANSFORMERS**

No potential PCB-containing transformers were identified during the site inspection or review of the NASB transformer database.

**APPLICABLE REPORTS / DOCUMENTS**

Available historical plans and aerial photos were reviewed for past property uses:  
1946 plan - Hangar 3 present to the west; no building located at Building 606 location.  
1952 plan - same as 1946 plan.  
1956 plan - same as 1952 plan.  
1958 aerial - Building 606 not present; Hangar 3 is to the west and aircraft are parked at 606 location.  
1962 plan - same as 1956 plan.  
1978 aerial - Similar to 1958 aerial. Hangar 3 present, no aircraft parked at 606 location.  
1983 plan - same as 1962 plan.  
1984 aerial - same as 1978 aerial  
1989 plan - same as 1983 plan  
1989 aerial - same as 1984 aerial  
2006 plan - Hangar 6 present to the NW, Hangar 3 demolished. Building 606 not present.

No USTs were present at Building 606 according to NASB records.

Two ASTs containing liquid nitrogen and oxygen were present south of Building 606. No ASTs are present at Building 606.

**HAZARDOUS WASTE STORAGE RECORDS**

No hazardous waste was historically stored at Building 606, according to NAS Brunswick Hazardous Waste Manager, D. Bruce Smith.

**MISCELLANEOUS NOTES**

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

**(SEE ATTACHED BUILDING FLOOR PLAN AND PHOTOGRAPHS)**

**INSPECTOR SIGNATURE:**



A handwritten signature in black ink, appearing to read 'Brandon Smith', is written over a horizontal line.

Brandon Smith, P.E.

**PHOTOGRAPHS**



No. 1 Building 606 – LOX Cart Shed – NAS Brunswick January 22, 2010  
Building 606 LOX Cart Shed – Exterior (north elevation)



No. 1 Building 606 – LOX Cart Shed – NAS Brunswick January 22, 2010  
Building 606 LOX Cart Shed – Interior (west elevation)