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NAS BRUNSWICK
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FINAL RESOURCE CONSERVATION AND RECOVERY ACT PARTIAL CLOSURE REPORT
FOR BUILDING 251 DE-ICE/RINSE PUMPHOUSE NAS BRUNSWICK ME
3/1/2010
TETRA TECH NUS

RCRA PARTIAL CLOSURE REPORT
for
BUILDING 251 – DE-ICE/RINSE PUMPHOUSE
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) RCRA or hazardous waste closure requirements have been completed for Building 251, at Naval Air Station Brunswick (NAS Brunswick).

2. PROPERTY DESCRIPTION

Building 251, known as the deice/rinse pumphouse, is a pumphouse building and associated above ground storage tank (AST) used for waste ethylene glycol storage. It is located on Orion Street, northeast of Building 86 (GSE) at NAS Brunswick (see Figure 1). It was constructed in 2002 and consists of a single story concrete-block building and associated 100,000 gallon AST. Building 251 is heated with natural gas. A site plan is attached (see Figure 2). Photographs of the facility are provided as an attachment to this report.

Aircraft deicing operations occur using an ethylene glycol solution at the Taxiway G wash rack. Waste glycol solution is collected at the wash rack and pumped via Building 251 to the adjacent 100,000 AST. Waste glycol is then pumped via an external effluent hookup to tanker trucks for offsite disposal.

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 251, including past use and operations at those locations.

According to NAS Brunswick Environmental Department personnel, since its construction in 2005, the sole use of Building 251 has been as a pumphouse. There is no record of hazardous waste operations at Building 251. According to NAS Brunswick Environmental Department personnel, waste ethylene glycol solution is disposed of offsite under a non-hazardous waste manifest.

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, and 1989 (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.

The review of aerials photos and site base maps did not show any buildings or structures previously located at or near the current Building 251 position. The area is shown as a grassy area on all aerial photographs reviewed. Parking areas to the north and south with a concrete sidewalk between are shown in aerial photographs from 1984 and on.

According to the NAS Brunswick transformer database, one 500 KVA pad-mounted transformer (Cooper RTE serial no. 0126001613) classified as a Non-PCB Transformer is associated with Building 251. Also according to the database, this transformer contains an insulating oil or dielectric fluid with less than 1 ppm of PCB. (Note: Under U.S. Environmental Protection Agency

PCB transformer regulations, a transformer is classified as a Non-PCB Transformer if its dielectric fluid contains less than 50 ppm PCB.)

One 100,000-gallon capacity, waste glycol solution above ground tank is present at Building 251.

4. SITE VISIT AND INVESTIGATION

A Building 251 site visit was conducted by Mr. Brandon Smith, P.E., Mr. James Forrelli, P.E., and Ms. Chelsea Fellows-Swenson, of TtNUS on January 22, 2010. The purpose of the visit was to verify information gathered during the records search and to collect additional information as necessary to prepare this closure report. TtNUS personnel were accompanied by Mr. D. Bruce Smith, the NAS Brunswick Hazardous Waste Manager. The Building 251 location was visually inspected for signs of hazardous waste generation or storage activity. Site visit observations, recorded on the attached Building Inspection Form⁽¹⁾, are summarized below:

- At the time of inspection, Building 251 and associated AST were in excellent condition. The interior of the tank was not inspected.
- 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.) were observed and 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.
- One concrete pad-mounted transformer was identified approximately 20 feet east of Building 251. No evidence of a past leak from this transformer was observed. (As discussed in Section 3, according to the NAS Brunswick transformer database the insulating fluid in this transformer contains less than 1 ppm PCB.)

Based on the records research findings and site visit observations, it was determined that neither further inspection nor sampling of Building 251 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 251.

6. OTHER ENVIRONMENTAL CONSIDERATIONS

No underground storage tanks or above ground storage tanks, except the AST described in Section 3, were observed in the immediate vicinity of Building 251.

7. LIMITATIONS

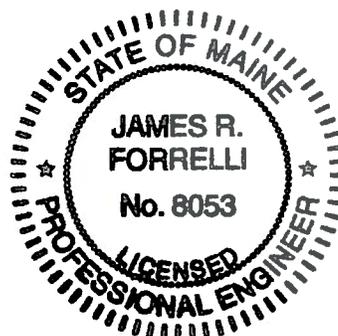
This investigation of the hazardous waste closure requirement applies to the Building 251 footprint (as shown on Figure 2) only. It does not apply to the land surrounding or the groundwater underlying Building 251.

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 251, NAS Brunswick, Maine. Therefore, the hazardous waste closure of Building 251 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

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.

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.

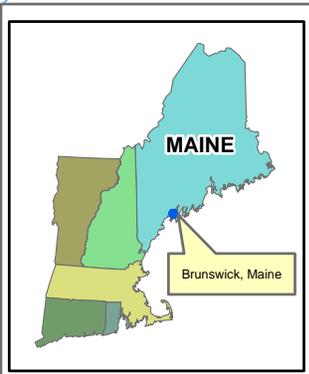
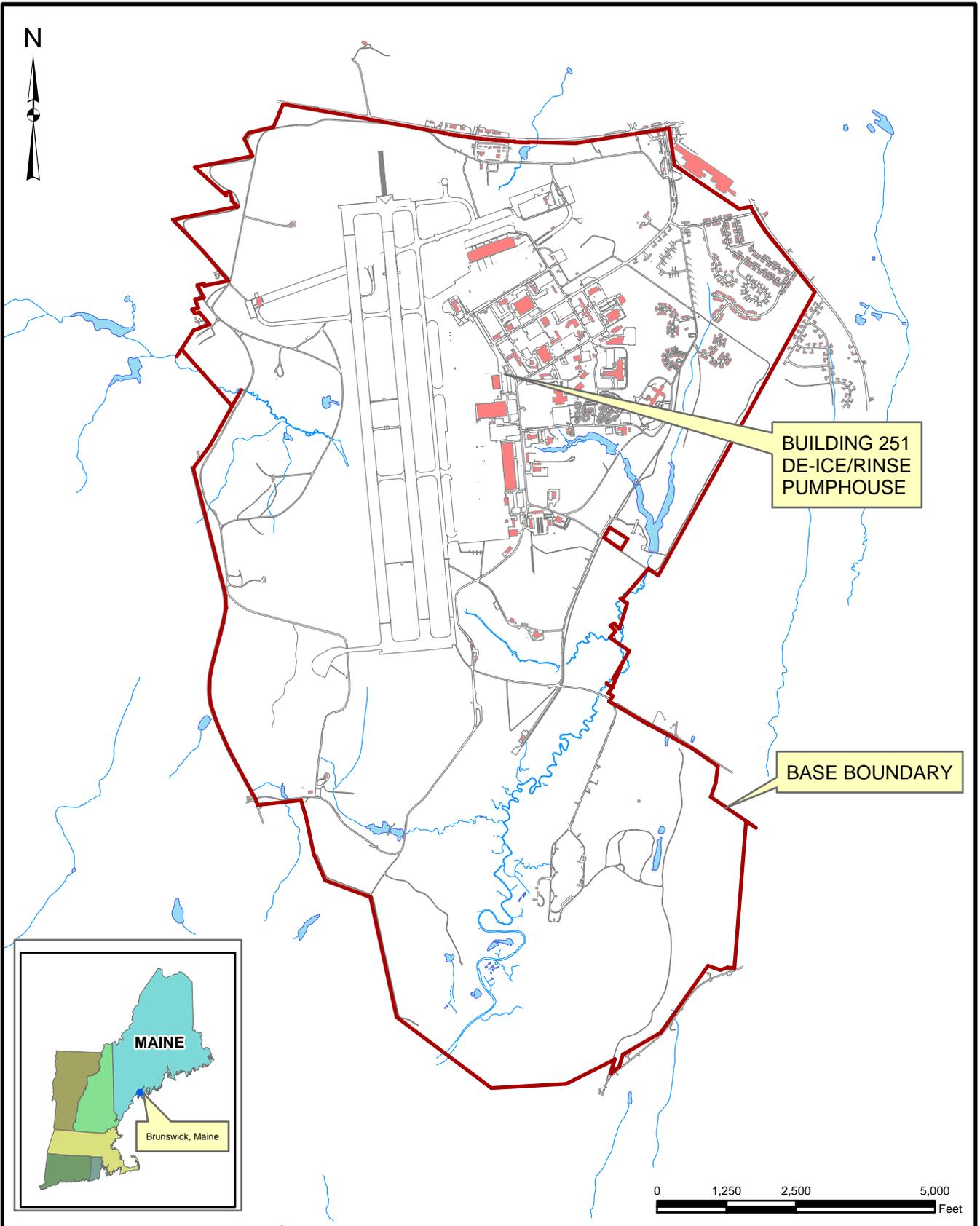
Public Works Department, 1962. "Map of Streets," US Naval Air Station, Brunswick, Maine, NAS Brunswick, Maine. 1962.

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.

Public Works Department. 2010. Transformer Database. NAS Brunswick, Maine. 2010.



Tetra Tech NUS, Inc.

SITE LOCATION MAP
 BUILDING 251 - DE-ICE/RINSE PUMPHOUSE
 RCRA PARTIAL CLOSURE REPORT
 NAVAL AIR STATION BRUNSWICK, MAINE

SCALE AS NOTED	
FILE I:\NASB_BLDG_251_LOCUS.MXD	
REV 0	DATE 03/10/10
FIGURE NUMBER 1	



GRAPHIC SCALE
0' 20'



TETRA TECH NUS, INC.

SITE LOCATION MAP
 BUILDING 251 - DE-ICE/RINSE PUMPHOUSE
 RCRA PARTIAL CLOSURE REPORT
 NAS BRUNSWICK, MAINE

SCALE
AS NOTED

FILE
\\.\NASB_BLDG_251_ORTHO.DWG

REV	DATE
0	02/10/10

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: Deice/Rinse Pumphouse
 Function: Pumphouse and associated tank for waste glycol pumping and storage
 Size: 1,026 SF
 Year of Construction: 2002

Building 251 is located on Orion Street, northeast of Building 86 (GSE) at NAS Brunswick. It was constructed in 2002 and consists of a single story, cinderblock building and associated 100,000 gallon above-ground storage tank.

Building 251 was used as a pumphouse for it's entire history. Aircraft deicing operations occur using an ethylene glycol solution at the Taxiway G wash rack. Waste glycol solution is collected in the OWS at the wash rack and pumped via Building 251 to the adjacent 100,000 AST. Waste glycol is then pumped via an external effluent hookup to tanker trucks for offsite disposal.

No hazardous waste was generated during the operations in Building 251, according to NASB personnel. Waste ethylene glycol solution is disposed of offsite under a non-hazardous waste manifest according to NASB Environmental personnel.

Building 251 is heated with natural gas.

BUILDING INSPECTION / CONDITION

No record of hazardous waste stored at Building 251.

At the time of the site visit, the building and AST exterior appeared in excellent condition. The interior of the tank was not inspected.

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.

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

HAZARDOUS WASTE STORED / GENERATED

No hazardous waste was stored or generated at Building 58, according to NASB personnel.

POTENTIAL PCB-CONTAINING TRANSFORMERS

The NASB transformer database lists the following transformers associated with Building 251:

500 KVA Pad-Mounted - Cooper RTE Serial No. 0126001613 - Non-PCB containing (<1 ppm PCBs)

APPLICABLE REPORTS / DOCUMENTS

Available historical plans and aerial photos were reviewed for past property uses:

1946 plan - Hangar 1 to the north; Location of Building 251 shows no buildings.

1952 plan - Same as 1946 plan

1956 plan - Same as 1952 plan

1958 aerial - Grassy area, no buildings present at location of Building 251.

1962 plan - Same as 1956; Building 250/Hangar 4 located south of Building 251 location.

1978 aerial - same as 1958 aerial.

1983 plan - Building 86 (GSE) and parking lot now present west of Building 251 location.

1984 aerial - grassy area with small trees. Parking areas have been built north and south with a walkway between them through the current location of Building 251.

1989 plan - same as 1983 plan.

1989 aerial - same as 1984 aerial.

1993 aerial - Building 86 (GSE) present west of Building 251 location with additional parking area.

2006 plan - Building 251 in current location.

No USTs were present at Building 251 according to NASB records.

One 100,000 gallon waste glycol AST is present at Building 251.

HAZARDOUS WASTE STORAGE RECORDS

No hazardous waste was historically stored at Building 251, 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 PHOTOGRAPHS)

INSPECTOR SIGNATURE:



Brandon Smith, P.E.

PHOTOGRAPHS



No. 1 Building 251 – NAS Brunswick January 22, 2010
Building 251 – Deice/Rinse Pumphouse and associated waste glycol AST.



No. 2 Building 251 – NAS Brunswick January 22, 2010
Building 251 – Deince/Rinse Pumphouse with external effluent hookup.