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NAS BRUNSWICK
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FINAL RESOURCE CONSERVATION AND RECOVERY ACT PARTIAL CLOSURE REPORT
FOR BUILDINGS 33, 265 AND 481 NAS BRUNSWICK ME
3/1/2010
TETRA TECH NUS

RCRA PARTIAL CLOSURE REPORT
for
BUILDING 33–FRONT GATE SECURITY BUILDING
BUILDING 265–FORRESTAL DRIVE HOUSING GUARD SHACK
BUILDING 481–COOMBS ROAD GUARD SHACK
NAVAL AIR STATION BRUNSWICK, MAINE
USEPA IDENTIFICATION NUMBER ME8170022018
MARCH 2010

1. INTRODUCTION

The purpose of this report is to present the findings and conclusion of the investigation conducted to determine if the Maine Department of Environmental Protection (MEDEP) RCRA or hazardous waste closure requirements have been completed for Buildings 33, 265 and 481 at Naval Air Station Brunswick (NAS Brunswick).

2. PROPERTY DESCRIPTION

Building 33

Building 33 is the former NAS Brunswick front gate security building located in the median of Fitch Avenue (Figures 1 and 2). It was staffed by security personnel controlling vehicular traffic access to and from NAS Brunswick. Constructed in 1954, Building 33 consists of a 106 square-foot, single level building on a concrete slab foundation (Figure 3). The building is heated by an electric space heater.

Building 265

Building 265 is a former guard house located on Forrestal Drive adjacent to the Forrestal Housing area (Figures 1 and 4). It was constructed in 1960 and consists of a 31-square-foot, single-level building. Building 265 is heated by an electric space heater.

Building 481

Building 481 is located along Coombs Road adjacent to the Weapons area and New Meadows Cemetery (Figures 1 and 5). It was constructed in 1980 and consists of a 64-square-foot, single level building. The building is heated by an electric space heater.

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 Buildings 33, 265, and 481, including past use and operations at those locations.

Records reviewed include: historical aerial photographs; the NAS Brunswick environmental databases, including the Other Environmental Liabilities (OEL) Database, the transformer database, the underground storage tank (UST) database, and the above-ground storage tank (AST) 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.

Building 33

According to NAS Brunswick Environmental Department personnel, since its construction in 1954, the sole use of Building 33 has been as a security building. There is no record of hazardous waste operations at Building 33.

The aerial photos and site base maps review showed a structure, identified as Building 33 gatehouse, present in the 1946 site base map. It is believed that the present building replaced this former structure at the same location. Building 33 is shown on all subsequent site base maps and aerial photographs.

No transformers that could be a potential source of polychlorinated biphenyl (PCB) contamination were listed in the NAS Brunswick transformers database for Building 33. In addition, no USTs or ASTs are associated with Building 33 in the NAS Brunswick environmental databases.

Building 265

According to NAS Brunswick Environmental Department personnel, since its construction in 1960, the sole use of Building 265 has been as a guard shack. There is no record of hazardous waste operations at Building 265.

The review of aerial photos and site base maps showed a wooded area between 1946 and 1952. In 1956, Forrestal Drive had been constructed with no buildings identified on the 1956 site base map. From 1958 to the present, a guard shack and housing are present in the aerial photographs and site base maps.

No transformers that could be a potential source of PCB contamination were listed in the NAS Brunswick transformers database for Building 265. In addition, no USTs or ASTs are associated with Building 265 in the NAS Brunswick environmental databases.

Building 481

According to NAS Brunswick Environmental Department personnel, since its construction in 1980, the sole use of Building 481 has been as a guard shack. There is no record of hazardous waste operations at Building 481.

The review of aerial photos and site base maps showed New Meadows Cemetery with no buildings present in the current location of Building 481 from 1956 through 1978. In 1983 and all subsequent years, Building 481 is not identified, possibly due to its size, and trees in the vicinity that obscure the aerial photograph view of Building 481.

No transformers that could be a potential source of PCB contamination were listed in the NAS Brunswick transformers database for Building 481. In addition, no USTs or ASTs are associated with Building 481 in the NAS Brunswick environmental databases.

4. SITE VISIT AND INVESTIGATION

A site visit of Buildings 33, 265 and 481 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 Buildings 33, 265, and 481 locations were visually inspected for signs of hazardous waste generation or storage activity. Site visit observations, recorded on the attached Building Inspection Forms⁽¹⁾, are summarized below:

Building 33

- At the time of inspection, Building 33 was vacant and in good condition.
- The interior consisted of a single room with telephone and electric services.
- 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.
- No transformers that could be a potential source of PCB contamination in the event of a leak were observed.

Building 265

- At the time of inspection, Building 265 was vacant and in fair condition.
- The interior consisted of a single room with telephone and electric services.
- 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.
- No transformers that could be a potential source of PCB contamination in the event of a leak were observed.

Building 481

- At the time of inspection, Building 481 was vacant and in fair condition.
- The interior consisted of a single room with telephone and electric services.
- 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.
- No transformers that could be a potential source of PCB contamination in the event of a leak were observed.

Based on the records research findings and site visit observations, it was determined that neither further inspection nor sampling of Buildings 33, 265 or 481 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 Buildings 33, 265, and 481.

6. OTHER ENVIRONMENTAL CONSIDERATIONS

No underground storage tanks or above ground storage tanks were observed in the immediate vicinity of Buildings 33, 265, or 481.

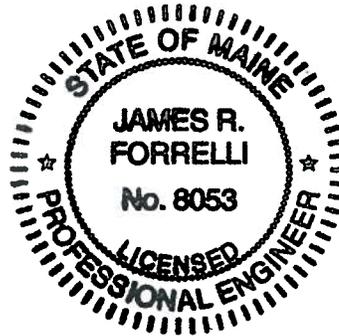
7. LIMITATIONS

This investigation of the hazardous waste closure requirement applies to the Buildings 33, 265, and 481 footprints (as shown on Figure 2, 4, and 5, respectively). It does not apply to the land surrounding or the groundwater underlying Buildings 33, 265 and 481.

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 Buildings 33, 265 and 481, NAS Brunswick, Maine. Therefore, the hazardous waste closure of Buildings 33, 265 and 481 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 reflect any additional information provided at a later date that further clarifies or corrects preliminary information collected during the building inspection and file reviews.

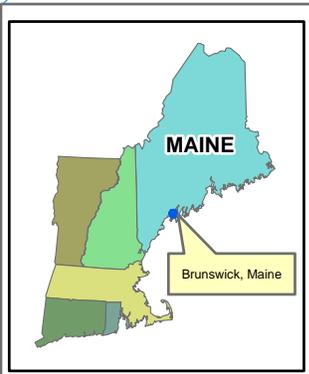
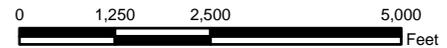
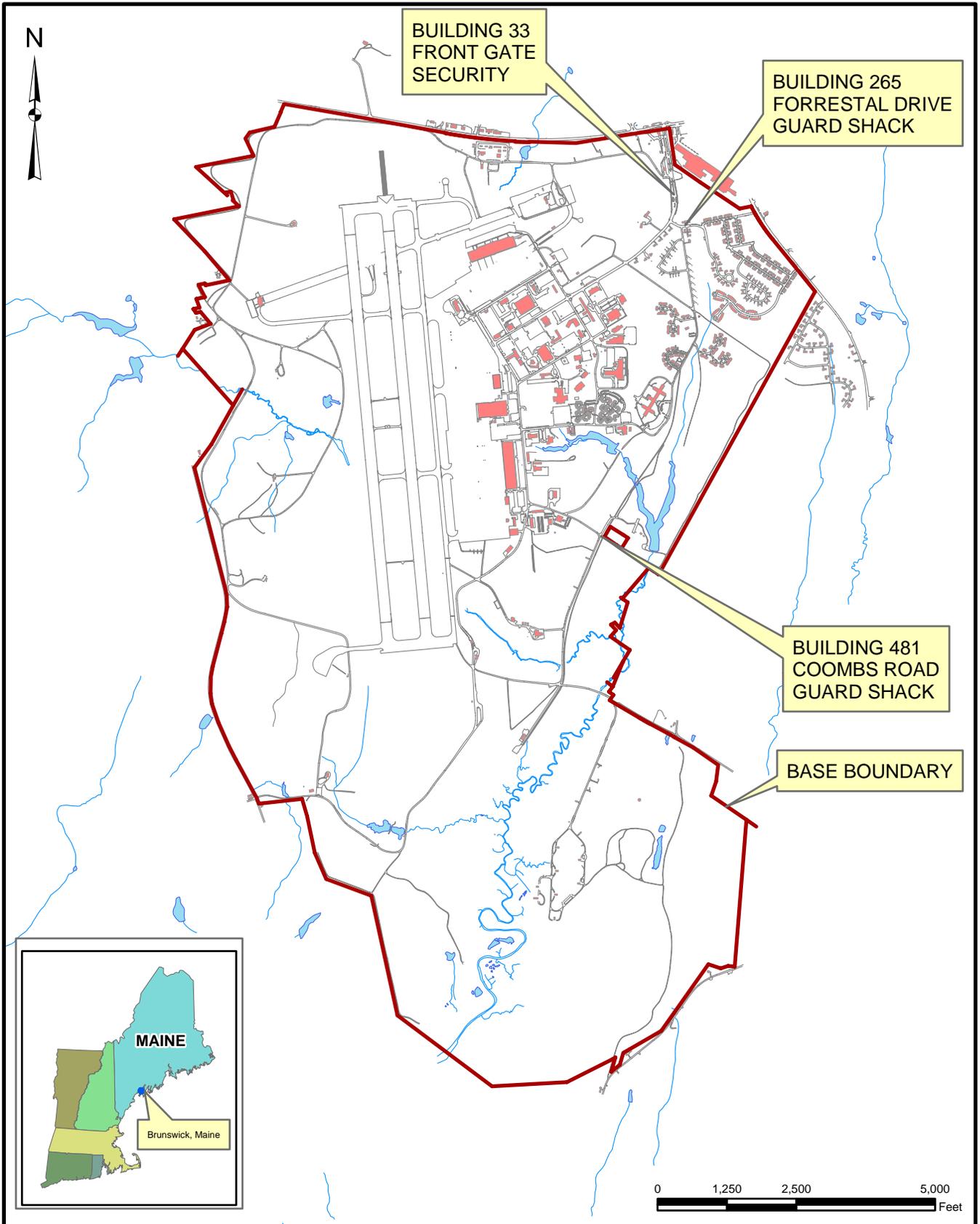
REFERENCES

- 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 33 - FRONT GATE SECURITY
 BUILDING 265 - FORRESTAL DRIVE GUARD SHACK
 BUILDING 481 - COOMBS ROAD GUARD SHACK
 RCRA PARTIAL CLOSURE REPORT
 NAVAL AIR STATION BRUNSWICK, MAINE

SCALE AS NOTED	
FILE I:_NASB_BLDG_33&265&481_LOCUS.MXD	
REV 0	DATE 03/10/10
FIGURE NUMBER 1	



Building Corner	Northing	Easting
Northeast	391009.566	3017870.184
Southeast	390986.129	3017874.634
Southwest	390985.239	3017865.438
Northwest	391008.379	3017860.988

Coordinates are in NAD 1983, Maine West, Feet



Tetra Tech NUS, Inc.

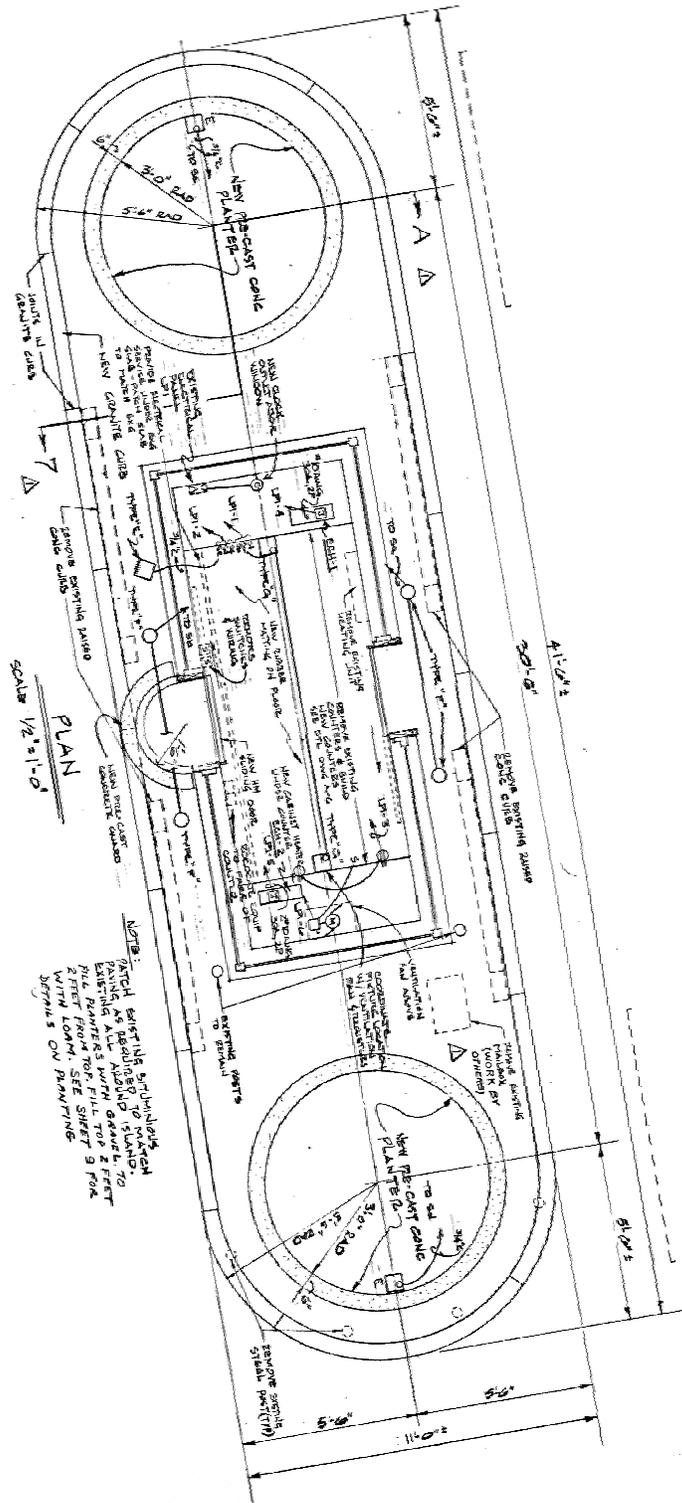
SITE PLAN
BUILDING 33 - FRONT GATE SECURITY
RCRA PARTIAL CLOSURE REPORT
NAS BRUNSWICK, MAINE

SCALE
AS NOTED

FILE
\\.\WASB_BLDG_33_ORTHO.MXD

REV	DATE
0	02/01/10

FIGURE NUMBER
2



NOTE: EXISTING STRUCTURE TO REMAIN AS FAR AS POSSIBLE TO AVOID GRINDING. EXISTING WORK SHALL BE REPT FILLED FROM TOP OF SHEET 3 FOR ALL FILL FROM SITE REMAINING WORKS ON DRAWING.



FLOOR PLAN
 BUILDING 33 - FRONT GATE SECURITY
 RCRA PARTIAL CLOSURE REPORT
 NAS BRUNSWICK, MAINE

SCALE AS NOTED	
FILE \\NASB_BLDG_33_FP.DWG	
REV 0	DATE 02/03/10
FIGURE NUMBER FIGURE NO. 3	



Building Corner	Northing	Easting
Northeast	389705.926	3018269.851
Southeast	389697.435	3018269.998
Southwest	389697.435	3018259.017
Northwest	389705.926	3018258.871

Coordinates are in NAD 1983, Maine West, Feet



Tetra Tech NUS, Inc.

SITE PLAN

BUILDING 265 - FORRESTAL DRIVE GUARD SHACK
 RCRA PARTIAL CLOSURE REPORT
 NAS BRUNSWICK, MAINE

SCALE
 AS NOTED

FILE
 I:\NASB_BLDG_265_ORTHO.MXD

REV	DATE
0	02/05/10

FIGURE NUMBER
 4



Building Corner	Northing	Easting
North	384090.118	3016710.730
East	384083.574	3016723.482
South	384061.488	3016712.736
West	384067.083	3016700.798

Coordinates are in NAD 1983, Maine West, Feet

GRAPHIC SCALE
0' 20'



TETRA TECH NUS, INC.

SITE LOCATION MAP
BUILDING 481 – COOMBS ROAD GUARD SHACK
RCRA PARTIAL CLOSURE REPORT
NAS BRUNSWICK, MAINE

SCALE
AS NOTED

FILE
\\NASB_BLDG_251_ORTHO.DWG

REV DATE
0 02/05/10

FIGURE NUMBER
FIGURE NO. 5

**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: Front Gate Guard Shack
 Function: Guard Shack
 Size: 106 SF
 Year of Construction: 1954

Building 33 is located at the Front Gate on Fitch Avenue at NAS Brunswick. It was constructed in 1954 and served as a guard shack for its entire history. Building 33 consists of a 106 square-foot, one story structure on a concrete slab foundation in the center of Fitch Avenue.

Building 33 was used as a guard shack until it was replaced by Building 35 in 2004. Building 33 contains a single room with telephone and electric service.

No hazardous waste was generated during the operations in Building 33, according to NASB personnel.

Building 33 was heated via electric space heater.

BUILDING INSPECTION / CONDITION

No record of hazardous waste stored at Building 33.

The building was not occupied 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, 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 33, 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 - Building 33 (Gatehouse) present.
- 1952 plan - Same as 1946 plan
- 1956 plan - Same as 1956 plan
- 1958 aerial - Building 33 present in current location.
- 1962 plan - same as 1956 plan
- 1978 aerial - same as 1958 aerial.
- 1983 plan - same as 1962 plan
- 1984 aerial - same as 1978 aerial
- 1989 plan - same as 1983 plan.
- 1989 aerial - same as 1984 aerial.
- 1993 aerial - same as 1989 aerial
- 2006 plan - same as 1989 plan.

No ASTs or USTs were present at Building 33 according to NASB records.

HAZARDOUS WASTE STORAGE RECORDS

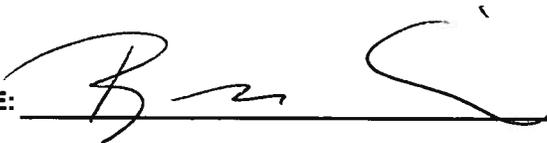
No hazardous waste was historically stored at Building 33, according to NAS Brunswick Hazardous Waste Manager, D. Bruce Smith.

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 33 – NAS Brunswick
Exterior of Building 33 – Front Gate Guard Shack

January 22, 2010



No. 2 Building 33 – NAS Brunswick
Interior of Building 33 – Front Gate Guard Shack.

January 22, 2010

**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: Forrestal Drive Housing Guard Shack
 Function: Guard Shack
 Size: 31 SF
 Year of Construction: 1960

Building 256 is located on Forrestal Drive adjacent to the Forrestal Housing area at NAS Brunswick. It was constructed in 1960 and served as a guard shack for its entire history. Building 265 consists of a 31 square-foot, one story wooden structure.

Building 256 was used as a guard shack. Building 256 contains a single room with telephone and electric service provided by overhead drops.

No hazardous waste was generated during the operations in Building 265, according to NASB personnel.

Building 265 was heated with a small electric space heater.

BUILDING INSPECTION / CONDITION

No record of hazardous waste stored at Building 265.

The building was not occupied at the time of the site visit and appeared in fair 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, 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 265, 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 - No buildings present, Forrestal Drive not present.

1952 plan - Same as 1946

1956 plan - No buildings shown, Forrestal Drive constructed.

1958 aerial - Housing present, guard shack present at current location of Building 265.

1962 plan - Forrestal Drive present, no buildings are shown in Housing Area.

1978 aerial - Housing area present, Building 265 not visible.

1983 plan - Forrestal Drive present, no buildings are shown in Housing Area (labeled Brunswick Gardens)

1984 aerial - Housing present, Building 265 present in current location.

1989 plan - same as 1983 plan.

1989 aerial - same as 1984 aerial

1993 aerial - same as 1989 aerial

2006 plan - Building 265 shown in current location.

No ASTs or USTs were present at Building 265 according to NASB records.

HAZARDOUS WASTE STORAGE RECORDS

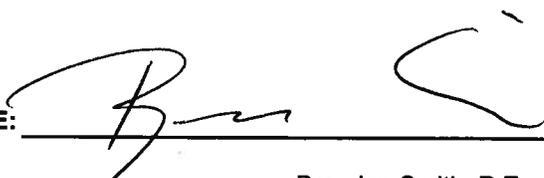
No hazardous waste was historically stored at Building 265, according to NAS Brunswick Hazardous Waste Manager, D. Bruce Smith.

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 265 – NAS Brunswick
Exterior of Building 265 – Forrestal Drive Housing Guard Shack

January 22, 2010



No. 2 Building 265 – NAS Brunswick
Interior of Building 265 – Forrestal Drive Housing Guard Shack.

January 22, 2010

**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: Coombs Road Guard Shack
 Function: Guard Shack
 Size: 64 SF
 Year of Construction: 1980

Building 256 is located on Coombs Road adjacent to the Weapons Area at NAS Brunswick. It was constructed in 1980 and served as a guard shack for its entire history. Building 481 consists of a 64 square-foot, one story wooden structure.

Building 481 was used as a guard shack. Building 481 contains a single room with telephone and electric service.

No hazardous waste was generated during the operations in Building 481, according to NASB personnel.

Building 481 was heated with a small electric space heater.

BUILDING INSPECTION / CONDITION

No record of hazardous waste stored at Building 481.

The building was not occupied at the time of the site visit and appeared in fair 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, 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 481, 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 - Weapons area not on plan.

1952 plan - Same as 1946

1956 plan - New Meadows Cemetery shown adjacent to Building 481 area, no buildings present.

1958 aerial - New Meadows Cemetery shown, no buildings present

1962 plan - Industrial Area of base only, Weapons area off the plan.

1978 aerial - same as 1958 aerial.

1983 plan - New Meadows Cemetery and perimeter fence shown adjacent to Building 481 area, no buildings present.

1984 aerial - New Meadows Cemetery and perimeter fence shown adjacent to Building 481 (present).

1989 plan - same as 1983 plan.

1989 aerial - same as 1984 aerial

1993 aerial - same as 1989 aerial

2006 plan - Building 481 is not identified on plan.

No ASTs or USTs were present at Building 481 according to NASB records.

HAZARDOUS WASTE STORAGE RECORDS

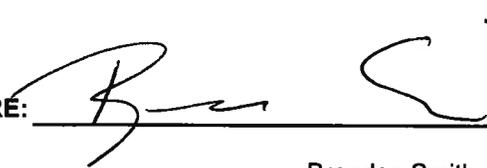
No hazardous waste was historically stored at Building 481, according to NAS Brunswick Hazardous Waste Manager, D. Bruce Smith.

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 481 – NAS Brunswick
Exterior of Building 481 – Coombs Road Guard Shack

January 22, 2010



No. 2 Building 481 – NAS Brunswick
Interior of Building 481 – Coombs Road Guard Shack.

January 22, 2010