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NAS BRUNSWICK  
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FINAL RESOURCE CONSERVATION AND RECOVERY ACT PARTIAL CLOSURE REPORT  
FOR RED LABEL AREA AND BUILDING 414 WITH TRANSMITTAL LETTER NAS  
BRUNSWICK ME  
8/24/2010  
NAS BRUNSWICK

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

August 24, 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 Red Label Area and Building 414

Dear Mr. Vigneault:

A copy of the Final RCRA Partial Closure Report for Red Label Area and Building 414 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](mailto:michael.fagan1@navy.mil).

Sincerely,



*pal* LISA M. JOY  
Environmental Director

Enclosure: (1) Final RCRA Partial Closure Report for Red Label Area and Building 414

Copy to:  
NAVFAC Mid-Atlantic (B. Abraham)  
NAS Brunswick (M. Fagan/D. Smith)  
EPA Region I (M. Daly)  
MRRA (V. Boundy)  
Curtis Memorial Library (L. Oliver)  
Lepage Environmental (C. Lepage)  
BRAC PMO NE (P. Burgio)

**RCRA PARTIAL CLOSURE REPORT**  
**for**  
**RED LABEL AREA**  
**BUILDING 414 - RED LABEL LINE SHACK**  
**NAVAL AIR STATION BRUNSWICK, MAINE**  
**USEPA IDENTIFICATION NUMBER ME8170022018**  
**AUGUST 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 the Red Label Area and Building 414 at Naval Air Station Brunswick (NAS Brunswick).

## 2. PROPERTY DESCRIPTION

The Red Label Area, also known as the Combat Aircraft Loading Area (CALA), is located in the southwestern portion of NAS Brunswick (Figure 1). The approximately 21-acre parcel is bordered to the north, west and south by the West of Runway Area and to the east by Swampy Road and the Runways Area (Figure 2).

The Red Label Area was constructed in 1983, and includes a concrete apron area (roughly 3.7 acres in area), where ordnance was loaded on and unloaded from aircraft. This area is accessed by an asphalt access road running from the south end of Runways 1L/19R and 1R/19L. The loading area is surrounded by hilly wooded terrain to the north and west and a wooded area to the south where a series of six pre-cast concrete guard emplacements (three to the north, one to the west and two to the south) have been placed. These guard emplacements were used to secure the area during ordnance handling activities. A series of seven light stanchions surround the concrete loading apron area. Building 414, a former line shack, and a transformer servicing the Red Label Area light stanchions are located south of the loading area and west of the gravel-covered Swampy Road (Figure 2). A gravel access road connects the Building 414 area and the former weapons loading area.

### Building 414 - Red Label Line Shack

Building 414, known as the Red Label Line Shack, is located in the southeastern portion of the Red Label Area. No longer in use, it was previously used as storage space and shelter for airfield ground crews at the Red Label Area. Constructed in 1983, this three-room building is a 240-square-foot, one-story, wooden structure. Building 414 features electric baseboard heating. It had a restroom and is connected to an in-ground septic system.

Photographs of the Red Label Area and Building 414 are provided in the attachment.

## 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 the Red Label Area, including past use and operations.

According to NAS Brunswick Environmental Department personnel, the Red Label Area was used to load and unload weapons from aircraft. Aircraft weapons were transported from the weapons compound, east of the runways, across the southern end of the runways to the Red Label Area for loading. Also, NAS Brunswick personnel reported that high-power engine run-up tests were occasionally conducted at this area and that prior to 1983, the area was undeveloped wooded land.

Records reviewed included historical aerial photographs, the NAS Brunswick 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 along with 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 2006), to provide historical information.

Between 1943 and 1953, the Red Label Area is shown outside the southern NAS Brunswick boundary. Starting in 1953, the area is shown as an undeveloped wooded area west of the reconfigured runway system. Swampy Road and Old Route 24 (renamed New Gurnet Road in 1957) are shown along the eastern edge of the wooded area.

Based on the aerial photographs the area remained undeveloped until sometime before 1981 when a large area is shown cleared of vegetation. Beginning with the 1984 aerial photograph, the Red Label Area is shown as it currently appears, with the associated concrete guard emplacements. Building 414 and the transformer are also visible in this photograph. The 1989 facility plan lists the area as the Ordnance Handling Pad. No additional changes are noted in subsequent photographs.

All airfield operations at NAS Brunswick ceased in January 2010; therefore ordnance handling activity stopped at the Red Label Area some time before then.

No oil-water separators (OWS), aboveground storage tanks (ASTs), or underground storage tanks (USTs) are in the Red Label Area, according to NAS Brunswick records (PWD, 2010; Environmental Department, 2009).

The NAS Brunswick Transformer Database lists one non-polychlorinated-biphenyl (PCB)-containing electrical transformer for the Red Label Area; a 25-kVa, pad-mounted transformer (Westinghouse Serial No. 82A092074) associated with Building 414 (PWD, 2010). The serial numbers for the Westinghouse-manufactured units indicate that they were manufactured after 1979 and therefore are unlikely to contain PCBs. As of July 1, 1979, the United States Environmental Protection Agency (EPA) prohibited all manufacturing of new PCB electrical equipment (transformers and capacitors). Since there are no buildings shown on this parcel prior to 1979 it is unlikely that a PCB-containing transformer existed on the Red Label Area.

A review of the MEDEP spill database and the NAS Brunswick spill logbook identified no reported spills within the Red Label Area (MWDEP, 2010; Environmental Department, 2005).

No groundwater investigations have been conducted in the vicinity of the Red Label Area; therefore, groundwater characterization information for the parcel is not available.

#### **4. SITE VISIT AND INVESTIGATION**

A site visit was conducted by Mr. James Forrelli, P.E., and Mr. Brandon Smith, P.E., of Tetra Tech on April 28, 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. Tetra Tech personnel were accompanied by Mr. D. Bruce Smith, the NAS Brunswick Hazardous Waste Manager.

The Red Label Area was visually inspected for signs of hazardous waste generation or storage. Site visit observations, recorded on the attached Building Inspection Form <sup>(1)</sup>, are summarized below:

- At the time of the inspection, the Red Label Area was not in use (airfield operations ceased in January 2010) and was in good condition.
- Building 414 was vacant and in poor condition.

- No evidence of current or past hazardous waste generation was observed.
- No evidence of hazardous waste residues was observed.
- No signs of a past release (staining, unusual odors, 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.

The areas of known groundwater contamination at NAS Brunswick were reviewed with respect to the location of the Red Label Area. Based on this review, as well as the review of available information on historical activities that occurred at the parcel, there is no evidence to suggest that groundwater underlying the Red Label Area has been adversely impacted by a release, either from within the parcel or from another (off-parcel) source area.

The closest Installation Restoration Program (IRP) site, Site 16, the Swampy Road Debris Site, is located approximately 1,000 feet south of the Red Label Area. Although there is no historical record of disposal at this site, an NAS Brunswick employee reported unspecified debris across a 1,700-foot section of the stream. In November 1992, a magnetometer survey, test pits, and soil, surface water, and sediment sampling were conducted. No further action was recommended at the site, after all the debris was removed, because no samples exceeded applicable standards. The site was addressed in a Consensus Statement dated July 18, 2001 recommending no further action for Sites 14, 15, 16, and 18 (Navy, 2006).

Based on the records research findings and site visit observations, it was determined that neither further inspection nor sampling of the Red Label Area and Building 414 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 was conducted at the Red Label Area and at Building 414.

#### 6. OTHER ENVIRONMENTAL CONSIDERATIONS

No USTs or ASTs were observed at the vicinity of the Red Label Area.

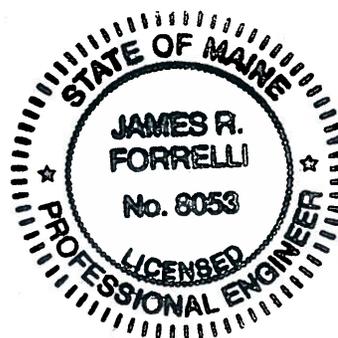
#### 7. LIMITATIONS

This investigation of the hazardous waste closure requirements applies to the Red Label Area and Building 414 (as shown on Figure 2) only.

#### 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 Red Label Area and at Building 414. Based on the findings of the investigation as reported in this Partial Closure report, the hazardous waste closure of the Red Label Area and Building 414 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**

Environmental Department, 2005. Spill Record Logbook (19 June 1991 - 21 April 2005). NAS Brunswick, Maine.

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

Maine Department of Environmental Protection (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, 2006. Final Environmental Condition of Property Report for Naval Air Station Brunswick, Maine. Department of the Navy BRAC Program Management Office, San Diego, California. May 30.

Public Works Department (PWD), 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, 1975. General Development, Existing and Planned, Operations Area, US Naval Air Station, Brunswick, Maine.

PWD, 1978. Repair Storage Magazines – Area Location & Index of Drawings, US Naval Air Station, Brunswick, Maine. August 12.

PWD, 1979. Existing Conditions Map. Public Works Department Drawing No. 925130, NAS Brunswick, Maine. Revised June 12.

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

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

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

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

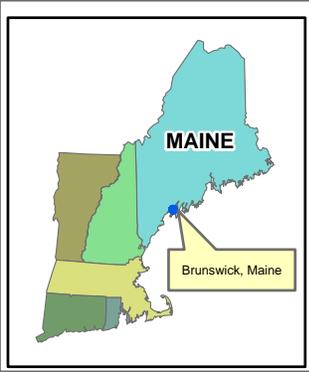
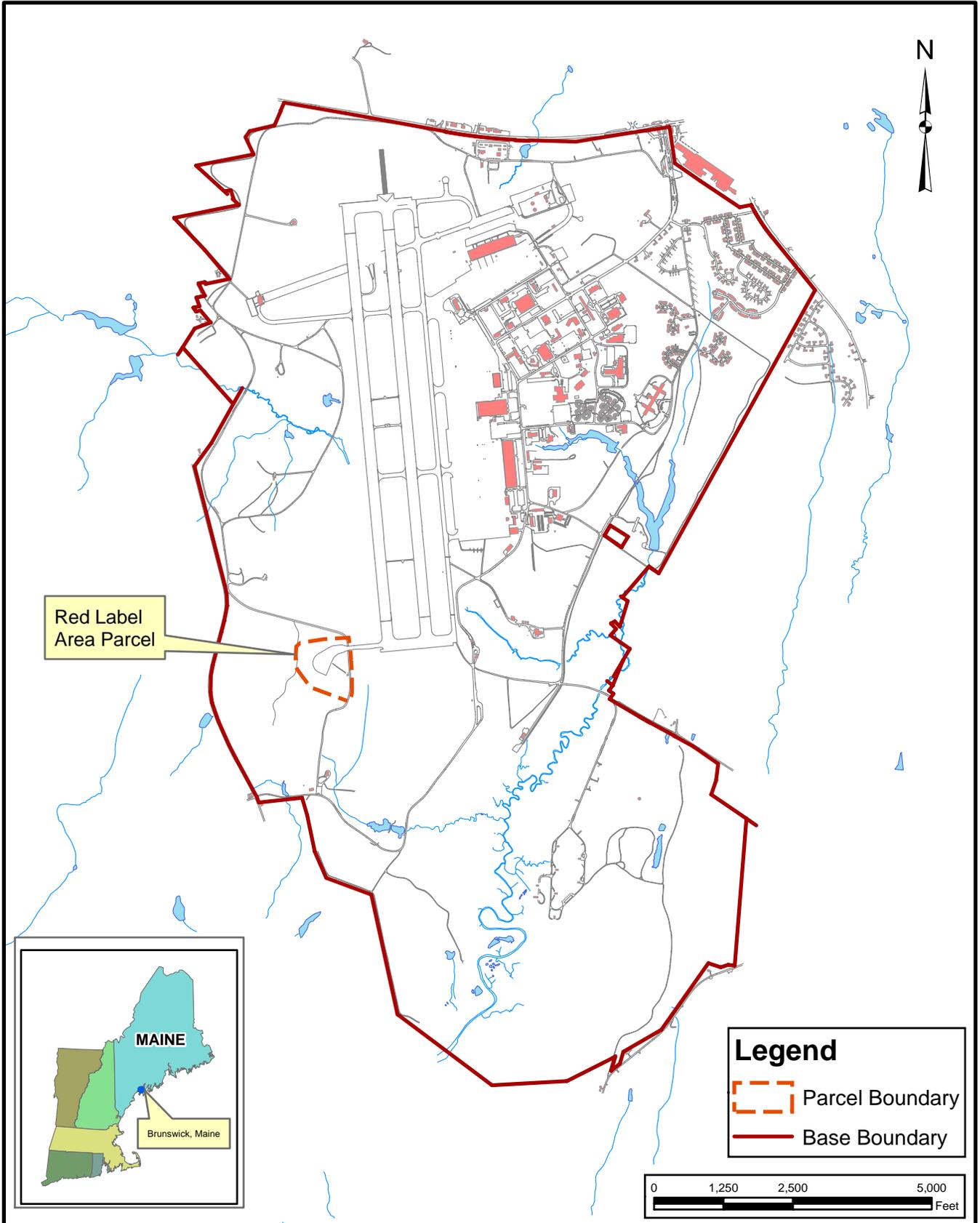
Sewall, 1958. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. October 9.

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

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

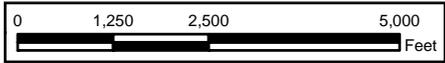
Sewall, 1989. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, Maine. April 2.

Tetra Tech, 2007. CERFA Identification of Uncontaminated Property at the Naval Air Station Brunswick, Maine. Tetra Tech NUS, Inc, King of Prussia, Pennsylvania. June.



**Legend**

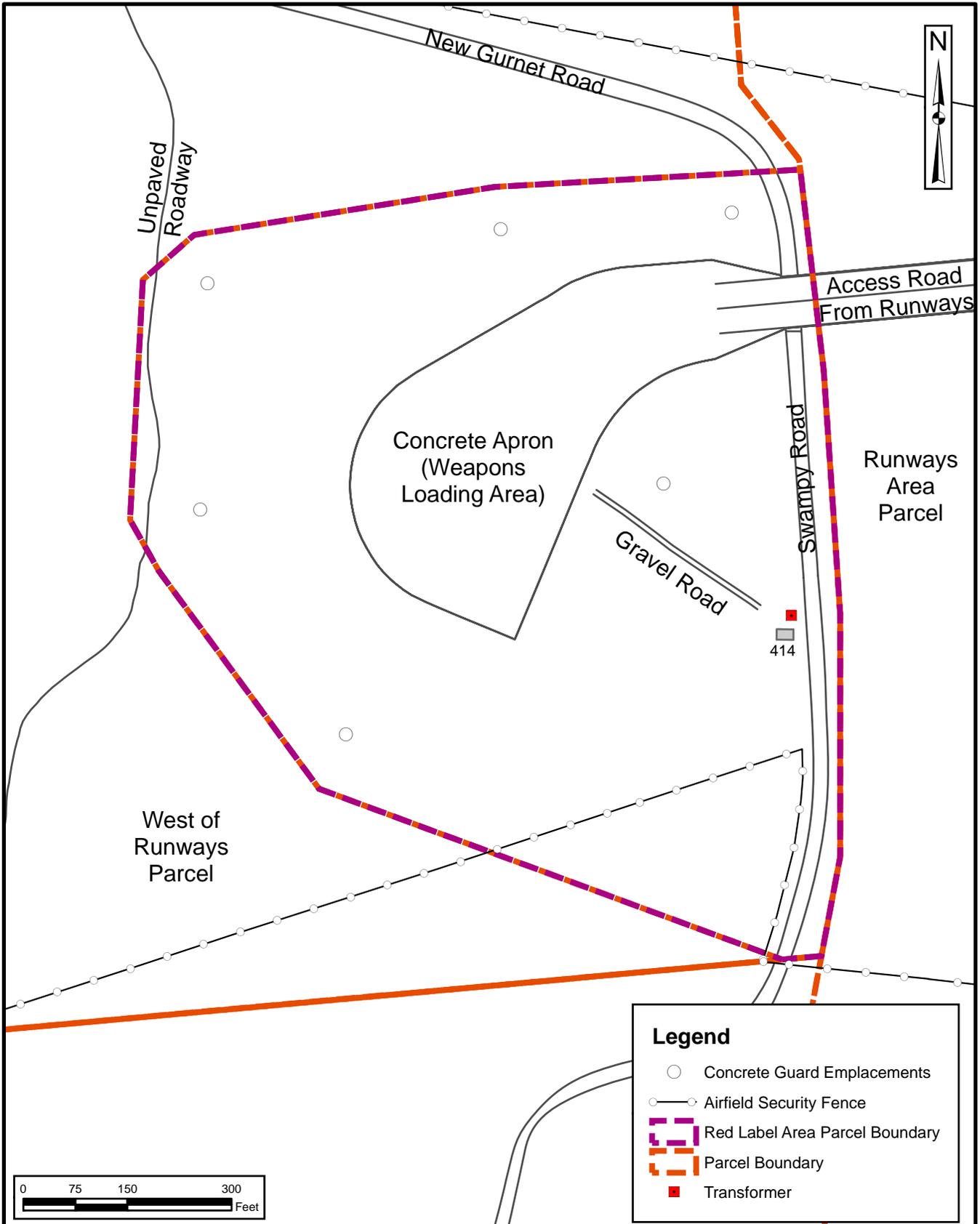
- Parcel Boundary
- Base Boundary



**Tetra Tech NUS, Inc.**

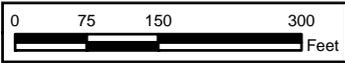
**SITE LOCATION MAP**  
**RED LABEL AREA PARCEL**  
**RCRA PARTIAL CLOSURE REPORT**  
**NAVAL AIR STATION BRUNSWICK, MAINE**

SCALE AS NOTED	
FILE I:\NASB_RCRA_15B_LOCUS.MXD	
REV 0	DATE 08/10/10
FIGURE NUMBER 1	



**Legend**

- Concrete Guard Emplacements
- Airfield Security Fence
- ▭ Red Label Area Parcel Boundary
- ▭ Parcel Boundary
- Transformer



Tetra Tech NUS, Inc.

**SITE PLAN**  
**RED LABEL AREA PARCEL**  
**RCRA PARTIAL CLOSURE REPORT**  
**NAVAL AIR STATION BRUNSWICK, MAINE**

SCALE AS NOTED	
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FIGURE NUMBER 2	

# RED LABEL AREA

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

**Inspection Date:** 4/28/2010

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

**Weather:** Overcast 40s

## GENERAL BUILDING INFORMATION / USES

**Building Name:** Red Label Area (land Area 15B)  
**Function:** Aircraft Weapons Loading  
**Size:** 15 AC  
**Year of Construction:** 1983

The Land Area 15B Parcel (Red Label Area Parcel), also known as the Combat Aircraft Loading Area (CALA), is located in the southwestern portion of NAS Brunswick. The approximate 15-acre parcel is bordered to the north, west, and south by Land Area 15A (West of Runway Area) and to the east by Land Area 3A (Runways Area). Swampy Road, which becomes New Gurnet Road, passes through the eastern portion of the parcel.

Land Area 15B contains the aircraft weapons loading area. The aircraft weapons loading area consists of a concrete slab that was used to load and unload weapons from the aircraft. The Red Label Area was constructed in 1983, and consists of an asphalt access road from the end of the runway to the concrete loading area. The loading area is surrounded by wooded hilly terrain to the north and west and a wooded area to the south. A series of three concrete pillbox guard emplacements are present (2 to the north and 1 to the south). Marines were stationed in these emplacements during weapons loading and unloading activities. A series of seven light stanchions are present around the concrete loading area. Power for the lights was provided by a transformer adjacent to Building 414, a former line shack. A gravel access road is present between the transformer area and the concrete loading apron.

Aircraft weapons were transported from the weapons compound, east of the runways, across the southern end of the runways to the Red Label Area for loading. According to NAS Brunswick personnel, occasionally, high power engine run-up tests occurred at in this area.

## BUILDING INSPECTION / CONDITION

No record of hazardous waste stored at Land Area 15B.

At the time of the inspection, the Land Area 15B parcel was closed and 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.) 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.

## HAZARDOUS WASTE STORED / GENERATED

No hazardous waste was stored or generated at Land Area 15B, according to NASB personnel.

## POTENTIAL PCB-CONTAINING TRANSFORMERS

The NASB transformer database listed the following transformers associated with Land Area 15B:

Westinghouse 25 kva pad-mounted Serial No. 82A092074 (Non-PCB <50ppm) - January 1982 at Sharon, PA plant

# **RED LABEL AREA**

## **APPLICABLE REPORTS / DOCUMENTS**

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

- 1943 - Area not shown.
- 1946 - Area outside of the southern base boundary. South of the cleared approach area.
- 1952 - New runway configuration is shown, but red label area is still shown as outside the southern base
- 1953 aerial - Red Label Area shown as wooded area.
- 1956 - Swampy Road and Old Route 24 are shown in the red label area parcel, no additional features.
- 1957 - Swampy Road and New Gurnet Road (formerly Old Route 24) are shown, no additional features.
- 1958 aerial - Same as 1953 aerial photo
- 1975 - Area not shown, only industrial area of the base.
- 1978 - Same as 1957 map
- 1978 aerial - Same as 1958 aerial photo
- 1979 - Area not shown, only industrial area of the base.
- 1981 aerial - Large portion of the Red Label Area is cleared of trees. No structures present.
- 1984 aerial - Red Label Area present in current location. Asphalt access road from the end south end of the runways to the concrete loading area and three pillbox structure surrounding the loading area are present. Building 414 and associated transformer are present in the south portion of the parcel.
- 1989 aerial - Same as 1984 aerial photo
- 1989 - Red label area is shown and labeled as Ordnance Handling Pad. Swampy Road and New Gurnet Road are present on the east side of the parcel.
- 1993 aerial - Same as 1989 aerial photo
- 1997 aerial - Same as 1993 aerial photo
- 2006 - same as 1989 map

According to NAS Brunswick records, no above-ground storage tanks (ASTs) or underground storage tanks (USTs) are present in the Land Area 15B parcel

A review of the MEDEP spill database and the NAS Brunswick Spill log identified no reported spills within the Land Area 15B parcel.

## **HAZARDOUS WASTE STORAGE RECORDS**

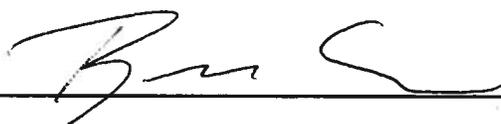
No hazardous waste was historically stored in Land Area 15B, according to NAS Brunswick Hazardous Waste Manager, D. Bruce Smith.

## **MISCELLANEOUS NOTES**

Tetra Tech personnel were accompanied on the inspection by D. Bruce Smith.

**(SEE ATTACHED PHOTOGRAPHS)**

**INSPECTOR SIGNATURE:** \_\_\_\_\_



Brandon Smith, P.E.

**PHOTOGRAPHS**



No. 1 Red Label Area Parcel– NAS Brunswick  
Concrete apron (former weapons loading area) from northern hillside

April 28, 2010



No. 2 Red Label Area Parcel– NAS Brunswick  
Concrete apron (former weapons loading area) from north – ground lighting in the foreground

April 28, 2010

**PHOTOGRAPHS**



No. 3 Red Label Area Parcel– NAS Brunswick  
Concrete guard emplacement north of former weapons loading area

April 28, 2010



No. 4 Red Label Area Parcel– NAS Brunswick  
Transformer and electrical supply equipment for Red Label Area lighting (north of Building 414)

April 28, 2010

**PHOTOGRAPHS**



No. 5 Red Label Area Parcel– NAS Brunswick  
Building 414 – former Red Label Area line shack

April 28, 2010



No. 6 Red Label Area Parcel– NAS Brunswick  
Building 414 interior

April 28, 2010