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NAS BRUNSWICK
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FINAL RESOURCE CONSERVATION AND RECOVERY ACT PARTIAL CLOSURE REPORT
FOR BUILDINGS 201 AND 420 WITH TRANSMITTAL LETTER NAS BRUNSWICK ME
9/28/2010
NAS BRUNSWICK

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

September 28, 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 Buildings 201 and 420

Dear Mr. Vigneault:

A copy of the Final RCRA Partial Closure Report for Buildings 201 and 420 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 Buildings 201 and 420

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

RCRA PARTIAL CLOSURE REPORT
for
BUILDING 201 – GALLEY PARCEL
BUILDING 420 – STORAGE SHED
NAVAL AIR STATION BRUNSWICK, MAINE
USEPA IDENTIFICATION NUMBER ME8170022018
SEPTEMBER 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 Building 201 parcel at Naval Air Station Brunswick (NAS Brunswick).

2. PROPERTY DESCRIPTION

The Building 201 parcel is located in the central portion of NAS Brunswick (Figure 1). As shown in Figure 2, the approximately 4.4-acre parcel is bounded as follows:

- Along its northern boundary - by Neptune Drive and the Building 211 (Field House) parcel, as well as the Building 226 (Sea Cadets) parcel to the north and east. The Buildings 730 through 749 parcel (Orion Landing barracks) are located beyond the Building 226 parcel to the northeast.
- Along its eastern boundary - by a small portion of the Building 537 parcel and by the Lower Impoundment Pond to the east and southeast (in addition to the Building 226 parcel, noted above).
- Along its southern boundary - by the Upper Impoundment Pond and the dam that separates the Lower and Upper Impoundment Ponds (beyond to the south is undeveloped land).
- Along its southwestern and western boundaries - by the Building 29 parcel, respectively.

Most of the parcel area lies within the boundaries of Installation Restoration Program (IRP) Site 9, the Neptune Drive Disposal Site. Additional information on Site 9 as it relates to the Building 201 parcel is provided below, in Section 3.

The parcel contains Building 201, the Galley, which is also known as Neptune Hall, and Building 420, a small storage building.

Building 201

Building 201 is a cafeteria constructed in 1953 and consists of a 9,425 square-foot, one-story, concrete building with a partial sub-grade cement foundation. A corridor separates the building into northern and southern sections. The northern section is comprised of office space, a small dining area, and restrooms. The southern section has a large commercial kitchen, dining rooms, and scullery. An addition to the southern portion of the building holds five walk-in freezers. Building 201 is heated by natural gas supplied by an off-site utility.

Building 420

Building 420, located on the southern side of Building 201, was used was used for storing dry goods and ground maintenance equipment. This single-room, 144-square-foot area building

features wooden-frame construction, plywood flooring and asphalt-shingled roof and is set on a concrete slab. The construction date of this building is not known. Building 420 is not heated.

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 Building 201 parcel, including past use and operations at that location.

According to historical records and NAS Brunswick Environmental Department personnel, following its construction in 1953, Building 201 was used as the Chief's Club until 1993, when it was converted into its present use as the galley (cafeteria). There is no record of hazardous waste generation at Building 201 or at Building 420, the storage shed located immediately to the south.

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 1958, 1978, 1981, 1984, 1993 and 1997 (Sewall, 1958, 1978, 1981, 1984, 1993 and 1997) were reviewed along with Public Works Department (PWD) site base maps dated 1946, 1952, 1956, 1957, 1975, 2004 and 2006 (PWD, 1946, 1952, 1956, 1957, 1975, 2004 and 2006) to provide historical information.

On historical site plans through the year 1952, a wooded area is indicated where the Building 201 parcel is currently located. Beginning with the 1956 site plan and the 1958 aerial photograph, Building 201 is shown in its current configuration. On the 1956 plan, no other buildings are shown in the immediate vicinity of Building 201, which is shown south of "Avenue G" (later extended to the east and renamed "Neptune Drive"). On historical site plans dated 1956 through 1989 and in aerial photographs dated 1958 through 1997, Buildings 216 through 220 (former military barracks on Site 9) are shown to the north, across Avenue G. On maps as early as 1956 through 2004, Building 52 is shown to the southwest of Building 201. Aerial photographs from 1978 to 1993 and historical plans dated between 1962 and 1989 show a large building, the former NAS Brunswick theatre (Building 293), to be present on what is the current footprint of Buildings 221 and 226, located on the adjacent parcel to the east. The site plan dated 2006 shows Buildings 221, 226, and 537 in their current locations on the adjacent parcels to the east. Building 420 does not appear in any of the historical aerial photographs, therefore it may have been recently constructed (after 1997).

The NAS Brunswick Transformer Database lists three electrical transformers associated with Building 201, one of which is an existing pad-mounted transformer located north of Building 201 (see Figure 2). One existing non-PCB-containing electrical transformer and two former (removed in 1989) PCB-containing transformers are listed. The following provides additional details from the database for Building 201:

Transformer	Manufacturer	Serial Number	Removal Date	PCB Concentration (parts per million)
38-kVa PCB-containing	Unknown	2643-4-3	3-31-89	170
38-kVa PCB-containing	Unknown	2643-4-4	3-31-89	180
225-kVa non-PCB-containing, pad-mounted	Howard Industries	1603401693	NA	<1

PCB – polychlorinated biphenyl
NA – not applicable

According to NAS Brunswick records, no underground storage tanks (USTs) are associated with the Building 201 parcel. Five aboveground storage tanks (ASTs) are listed for Building 201 in the NAS Brunswick AST Database:

Tank ID	Capacity (gallons)	Product Stored	Manufacturer	Tank Type	Year Removed	Remarks/ Location
A201.0	250	Cooking Grease	Baker	SWS		east side of building
A201.1	330	No. 1 Oil (heating oil)	Maine Tank	SWS	1999	basement location-relocated to Building 19
A201.2	330	No. 1 Oil (heating oil)	Maine Tank	SWS	1999	basement location-relocated to Building 19
A201.3	2000	No. 1 Oil (heating)	Highland	DWS		dual fuel; northeast corner of building
A201.4	100	Diesel (fuel for generator)	Highland	DWS		north of building (generator set day tank)

SWS – single-walled steel
DWS – double-walled steel

The locations of the existing ASTs are included on Figure 2. No oil-water separators are listed for Building 201.

As noted in Section 2, most of the Building 201 parcel lies within the boundaries of IRP Site 9. Portions of the parcel have been included in some Site 9 investigations. At Site 9, a former solid waste incinerator and associated ash landfill/dump area were reportedly located north of Neptune Drive (north and upgradient of the Building 201 parcel). The incinerator was reportedly used from April 1943 until fall 1946, but may have been used as late as 1953, when barracks buildings (now demolished) were constructed at the site. Other wastes reportedly disposed in the ash landfill/dump area included solvents that were burned on the ground, paint sludges, and possibly wastes from the Metal Shop (former Building 8) (U.S. Navy, 1999). Prior to 1953, the inactive ash landfill was closed and a soil cover was installed over it. In 1953, Buildings 218 and 219, former military barracks, were constructed over the former landfill area.

Although historical records also indicated a possible solvent burning or dumping area south of Neptune Drive (east and southeast of Building 201), as well as a Building 201 former septic system that was suspected as a potential source of contamination, numerous Site 9 investigations including test pits and sampling/analysis of soil, soil gas, and pore water along the northern bank of the Upper Impoundment Pond, did not identify a source of contamination in these areas. (The septic system, located on the eastern side of Building 201, was in use from 1952 until 1972, when the parcel was connected to the base-wide sewer system. It consisted of a 6- by 6-foot, cinder block tank with no bottom. The tank was buried approximately 5 feet below grade and was connected to five cesspools [EC Jordan, 1991].)

A removal action completed in 2008 included removal of 42,355 tons of ash-containing soil from the ash landfill/dump area (north of Neptune Drive). Subsequent investigations identified ash over a larger area, north and northwest of the former incinerator and south of Neptune Drive, in soil borings advanced on the northern portion of the Building 201 parcel (ECC, 2009). Additional IRP Site 9 investigations that are planned include portions of the Building 201 parcel to evaluate possible areas of ash on that parcel.

Groundwater underlying the Building 201 parcel has been impacted by the migration of contaminated groundwater from the upgradient IRP Site 9 source area (groundwater flow is in a south-southeast direction from the Site 9 landfill). Part of the selected remedial action for Site 9 groundwater contamination includes natural attenuation and long-term monitoring (LTM). The LTM program was initiated in March 1995 and is ongoing, including the monitoring of locations on the Building 201 parcel in accordance with the final Site 9 ROD (U.S. Navy, 1999). Long-term protectiveness of the remedy will be verified by continued monitoring in accordance with the LTM program (Tetra Tech, 2010). Any additional action that may be needed in the future to address adverse impacts to the Building 201 parcel resulting from Site 9 will be addressed as part of the IRP.

Finally, the Building 201 parcel is located within the likely “shot fall area” of the former NAS Brunswick Skeet Range, located south of the parcel (and south of the Lower Impoundment Pond). The range is currently being investigated under the Military Munitions Response Program (MMRP). This investigation includes analysis of soil samples collected from the Building 201 parcel. The Skeet Range investigation results have not been published as of the date of this closure report. Any adverse impacts to the parcel resulting from past skeet range activities will be addressed by the MMRP.

4. SITE VISIT AND INVESTIGATION

A site visit was conducted on April 27, 2010 by Mr. James Forrelli, P.E., Mindi Messmer, and Brian Geringer of Tetra Tech. A second site visit was conducted on August 25, 2009 by Mr. Mark Speer, P.E., Mr. Forrelli, and Mr. Geringer 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 201 parcel 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:

- Building 201 was not occupied at the time of the site visit and appeared in good condition. The interior was empty, except for kitchen and other miscellaneous furniture.
- Building 420 was empty at the time of the site visit and appeared in good 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, stressed vegetation, 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.
- According to NAS Brunswick personnel, building 201 was originally connected to the central steam heat plant. When the base converted to the distributed heat plan a utility room was added to the northeastern corner of the building to house two oil-fired boilers and a water heater. Fuel oil was supplied by the 2,000-gallon AST (A210.3). In 2000 the base converted these boilers and the water heater to operate on natural gas. An oil-fired water heater still remains in the basement.
- One pad-mounted transformer was observed to the north of Building 201 (Figure 2). No evidence of a past leak from this transformer was observed.

Because Building 201 was constructed prior to 1979 and PCB-containing transformers were identified in the NAS Brunswick Transformer Database, the transformer pad located north of Building 201 could potentially be an area of PCB soil contamination, if there had been an historical transformer leak. (A review of historical aerial photographs did not identify a potential former location of the listed PCB-containing transformers that differed from the existing transformer pad.) To assess potential PCB soil contamination, on May 6, 2010, surface soil samples were collected from four locations surrounding the transformer pad, using a hand auger. A total of eight composite soil samples (plus one field duplicate) were collected for PCB analysis: the soil samples were collected from 0 to 6 inches and 6 to 24 inches below ground surface (bgs) at locations adjacent to each of the four sides of the existing transformer pad (Figure 2).

All samples were submitted for PCB analysis by Tetra Tech’s subcontracted analytical laboratory, Analytics Environmental Laboratory, Portsmouth, New Hampshire. The resulting analytical data underwent limited data validation, consisting of field duplicate evaluation, blank contamination evaluation, and completeness evaluation. PCBs were not detected in any of the soil samples, as summarized in Table 1.

As stated above in Section 3, groundwater underlying the Building 201 parcel has been previously impacted by contaminated groundwater from the upgradient IRP Site 9 source area. If any additional remedial action is needed in the future to address groundwater contamination in this area, it would be addressed under the IRP.

There is no evidence to suggest that there has been a release from within the Building 201 parcel itself that has adversely impacted groundwater underlying the parcel.

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, accumulation, or storage was conducted at the Building 201 parcel.

6. OTHER ENVIRONMENTAL CONSIDERATIONS

No USTs are known to be associated with the Building 201 parcel. The only transformers and ASTs known to be associated with the Building 201 parcel are discussed in Sections 3 and 4. No other tanks were observed in the immediate vicinity of Building 201 and Building 420.

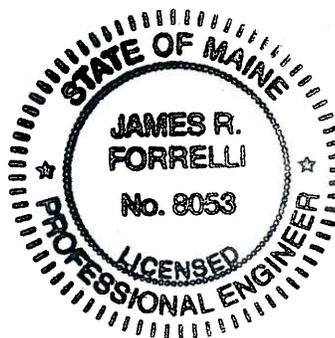
7. LIMITATIONS

This investigation of the hazardous waste closure requirement applies to the Building 201 parcel (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 Building 201 parcel, NAS Brunswick, Maine. Therefore, the hazardous waste closure of the Building 201 parcel was completed in accordance with the provisions of MEDEP Regulations Chapter 851, Standards for Generators of Hazardous Waste, Section 11.

James R. Forrelli
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

ABB, 2004. Draft Final Technical Memorandum, Site 9, Neptune Drive Disposal Site, May.
EA, 1999. Record of Decision for Site 9, NAS Brunswick, Maine. September.

ECC, 2009. Final Summary Report, Site 9 Ash Delineation and Investigations at Building 201 AOC and Irrigated Playing Field, Naval Air Station, Brunswick, Maine. March.

EC Jordan, 1990. Draft Final Remedial Investigation Report, Naval Air Station, Brunswick, Maine. August.

EC Jordan, 1991. Draft Final Supplemental RI Report, Naval Air Station, Brunswick, Maine. August.

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

H&S, 2010. Final Site Monitoring Event 35 Report, Neptune Drive Disposal Site, Naval Air Station, Brunswick, Maine. September.

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

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, 1975. General Development, Existing and Planned, Operations Area, US Naval Air Station, Brunswick, Maine.

PWD, 2004. Brunswick Naval Air Station, NAS Brunswick, Maine.

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

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

Sewall, (James W. Sewall Company), 1958. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, ME. October 9.

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

Sewall, 1981. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, ME. October 17.

Sewall, 1993. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, ME. November 8.

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

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

Sewall, 1997. NAS Brunswick Aerial Photographs. James W. Sewall Company, Old Town, ME. May 27.

Tetra Tech, 2010. Third Five-Year Review Report for Naval Air Station Brunswick, Brunswick, Maine. Submitted to Naval Facilities Engineering Command Mid-Atlantic, Norfolk, Virginia. March.

U.S. Navy, 1994. Interim Record of Decision for Groundwater Operable Unit at Site 9, Naval Air Station Brunswick, Brunswick, Maine. September.

U.S. Navy, 1999. Final Record of Decision for the Groundwater Operable Unit at Site 9, Naval Air Station Brunswick, Brunswick, Maine. September.

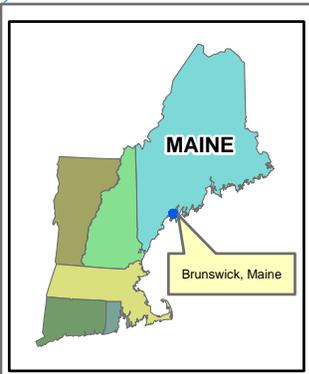
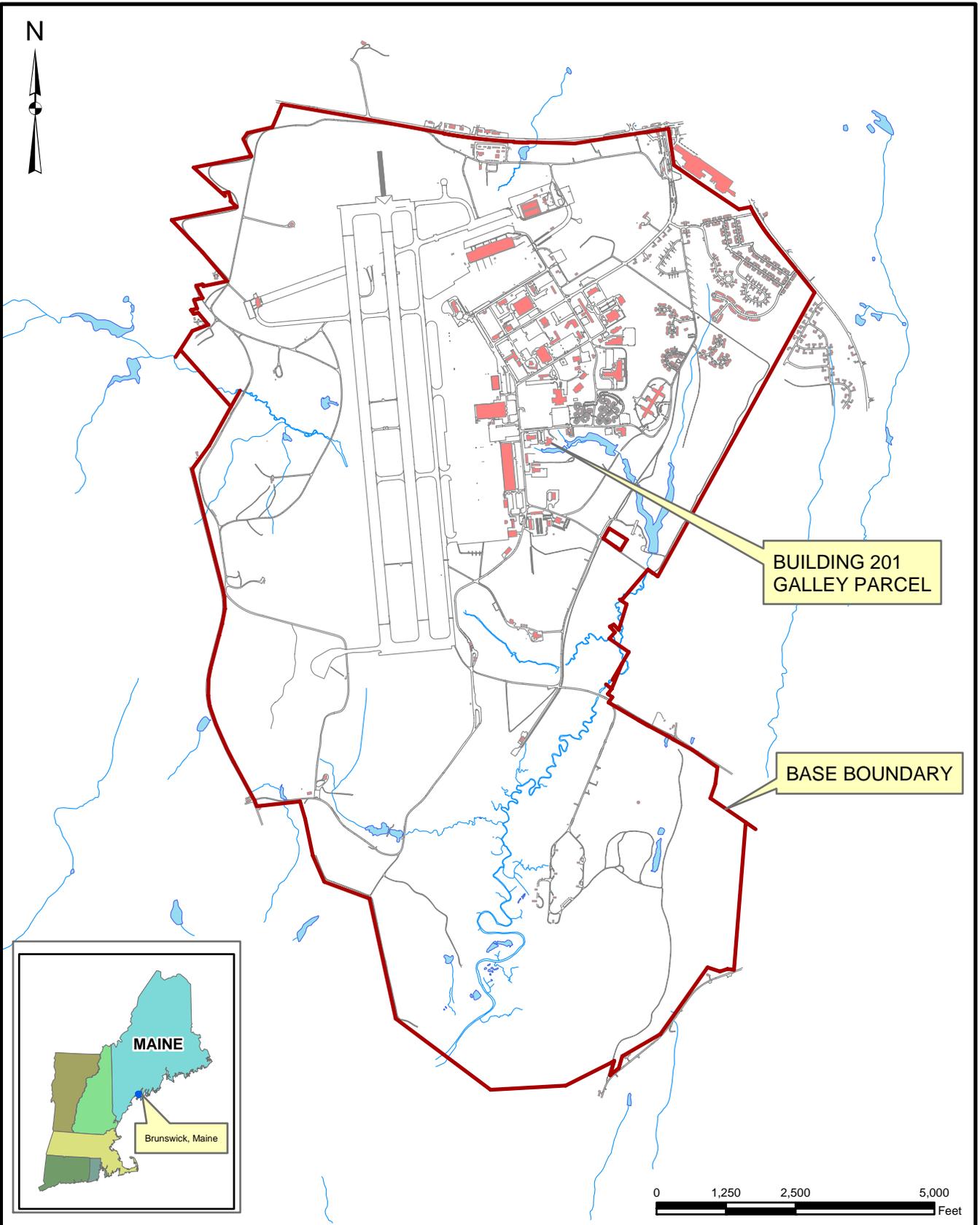
Weston (Roy F. Weston), 1983. Initial Assessment Study, Naval Air Station, Brunswick, Maine. June.

**TABLE 1
SOIL SAMPLE PCB RESULTS
RCRA PARTIAL CLOSURE REPORT
BUILDING 201- GALLEY
NAVAL AIR STATION BRUNSWICK, MAINE**

SAMPLE ID ⁽¹⁾	EPA RSLs ⁽²⁾ (µg/kg)	B201-SB01-0006	B201-SB01-0624	B201-SB01-0624 (duplicate)	B201-SB02-0006	B201-SB02-0624	B201-SB03-0006	B201-SB03-0624	B201-SB04-0006	B201-SB04-0624
LOCATION		transformer pad	transformer pad	transformer pad	transformer pad	transformer pad	transformer pad	transformer pad	transformer pad	transformer pad
MATRIX		soil	soil	soil	soil	soil	soil	soil	soil	soil
DEPTH		0-6 inch bgs	6-24inch bgs	6-24inch bgs	0-6 inch bgs	6-24inch bgs	0-6 inch bgs	6-24inch bgs	0-6 inch bgs	6-24inch bgs
SAMPLE DATE		5/6/10	5/6/10	5/6/10	5/6/10	5/6/10	5/6/10	5/6/10	5/6/10	5/6/10
PCB (µg/kg)										
Aroclor-1016	3,900	20 U	16.5 U	16.5 U	18 U	18 U	18 U	16.5 U	18 U	16.5 U
Aroclor-1221	140	20 U	16.5 U	16.5 U	18 U	18 U	18 U	16.5 U	18 U	16.5 U
Aroclor-1232	140	20 U	16.5 U	16.5 U	18 U	18 U	18 U	16.5 U	18 U	16.5 U
Aroclor-1242	220	20 U	16.5 U	16.5 U	18 U	18 U	18 U	16.5 U	18 U	16.5 U
Aroclor-1248	220	20 U	16.5 U	16.5 U	18 U	18 U	18 U	16.5 U	18 U	16.5 U
Aroclor-1254	220	20 U	16.5 U	16.5 U	18 U	18 U	18 U	16.5 U	18 U	16.5 U
Aroclor-1260	220	20 U	16.5 U	16.5 U	18 U	18 U	18 U	16.5 U	18 U	16.5 U
Total PCB ⁽³⁾	1,000	20 U	16.5 U	16.5 U	18 U	18 U	18 U	16.5 U	18 U	16.5 U

Notes:

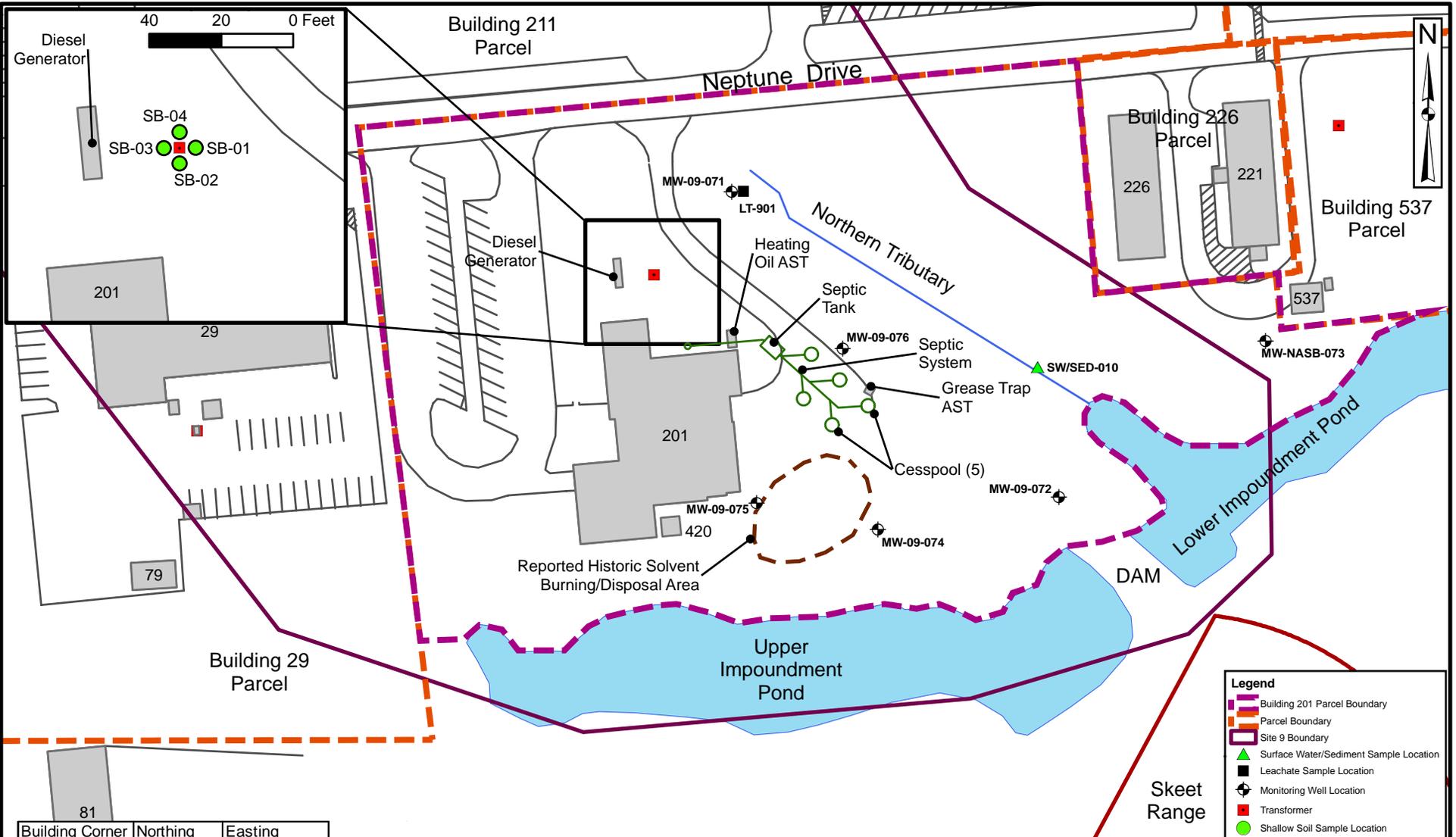
- (1) Sample prefix "NASB" is not shown.
- (2) EPA Regional Screening Levels [RSLs] for residential soil provided for informational purposes
- (3) MEDEP action limit for PCB spill (1 mg/kg).
- bgs below ground surface
- µg/kg micrograms per kilogram
- U not detected (with associated detection limit)
- PCB polychlorinated biphenyl



Tetra Tech NUS, Inc.

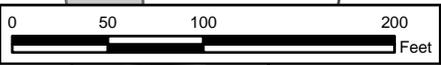
SITE LOCATION MAP
 BUILDING 201 - GALLEY PARCEL
 RCRA PARTIAL CLOSURE REPORT
 NAVAL AIR STATION BRUNSWICK, MAINE

SCALE AS NOTED	
FILE	
I:\NASB_BLDG_226_LOCUS.MXD	
REV	DATE
0	09/21/10
FIGURE NUMBER	
1	



Building Corner	Northing	Easting
Northeast	386067.600	3016081.712
Southeast	385967.840	3016088.692
Southwest	385965.610	3016056.772
Northwest	386065.370	3016049.792

Coordinates are in NAD 1983, Maine West, Feet




Tetra Tech NUS, Inc.

SITE PLAN
BUILDING 201 - GALLEY PARCEL
RCRA PARTIAL CLOSURE REPORT
NAVAL AIR STATION BRUNSWICK, MAINE

SCALE AS NOTED	
FILE I:\NASB_BLDG_201_SITE_MAP.MXD	
REV 0	DATE 09/28/10
FIGURE NUMBER 2	

Legend

- Building 201 Parcel Boundary
- Parcel Boundary
- Site 9 Boundary
- ▲ Surface Water/Sediment Sample Location
- Leachate Sample Location
- ⊕ Monitoring Well Location
- Transformer
- Shallow Soil Sample Location

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

Inspection Date: 4/27/2010

Personnel: James Forrelli, P.E. / Mindi Messmer / Brian Geringer

Weather: Rainy, 40's

GENERAL BUILDING INFORMATION / USES

Building Name: Galley/ Neptune Hall
 Function: Enlisted Men Galley
 Size: 9,425 SF
 Year of Construction: 1953

Building 201 is bounded to the north by Neptune Drive and Site 9 further north. To the west is Building 29. To the south is a water body termed the "Upper Impoundment Pond" and undeveloped land further south. To the east is undeveloped land and further east are Buildings 226 and 221 at NAS Brunswick. Building 201 was constructed in 1953 and it served as a galley for it's entire history. Building 201 consists of a 9425 square-foot, one story concrete building with a partial sub-grade cement foundation.

Building 201 is used as a CPO mess hall with a Stag Bar. The southern portion of the building has a large commercial kitchen and five walk-in freezers, the eastern side of the building contains a main and supplementary dining area and scullery. In the northern portion of the building are office space, restrooms and another smaller dining area.

No hazardous waste was generated during the operations in Building 201, according to NASB personnel.

Building 201 was formerly heated by an oil-fired boiler which remains in the building basement. An oil tank was also formerly located in the basement according to NAS personnel. Currently Building 201 is heated by natural gas supplied by an off-site utility.

BUILDING INSPECTION / CONDITION

No record of hazardous waste stored at Building 201.

The building was not occupied at the time of the site visit and appeared in good condition. The interior was empty except for kitchen furniture and other miscellaneous furniture.

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 non-PCB containing transformer (serial number 1603401593) was observed.

HAZARDOUS WASTE STORED / GENERATED

No hazardous waste was stored or generated at Building 201, according to NASB personnel.

POTENTIAL PCB-CONTAINING TRANSFORMERS

The NASB transformer database lists the following transformer associated with Building 201:

225 KVA Pad-Mounted - Howard Industries Serial No. 1603401693 - Non-PCB containing (<1 ppm PCBs)

The NASB transformer database lists the following PCB-containing transformers associated with Building 201 that were removed in 1989:

Volume (gallons)	Status	SerialNo	Manifest #	KVA	Description/loc:	Type	PCB (ppb)	Date Removed
35	D	2643-4-3	MEA020947	38	B201	PCB	170	890331
35	D	2643-4-4	MEA020947	38	B201	PCB	180	890331

Due to the age of the building, soil sampling around the pad is recommended in order to confirm that the soil is free of PCBs from potential former transformers.

APPLICABLE REPORTS / DOCUMENTS

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

1946 plan - The immediate area of Building 201 appears undeveloped.

1952 plan - same as 1946 plan.

1956 plan - Building 201 shown south of "Avenue G" which later was extended to the east and became Neptune Drive. Buildings 52 (to the southwest) and 216 through 220 are shown to the north across Avenue G and Building 211 is also shown to the northeast. No other buildings are shown in the immediate vicinity of Building 201.

1957 plan - same as 1956 plan except Avenue G is re-named Neptune Drive and is extended to the east.

1958 aerial - Building 201 is visible along with Buildings 216 through 220 are visible to the north across the road and Building 211 is also visible to the northeast. Building 293 is visible further to the east.

1962 plan - same as 1957 plan except Building 201 is labeled CPO club.

1975 plan - same as 1957 plan.

1978 aerial - same as 1958 aerial except a parking lot area is visible to the west.

1983 plan - same as 1975 plan except the area west of Building 201 is developed at the intersection of Neptune Drive with Orion Street. It is possible that Building 29 is one of the developed areas.

1981 aerial - same as 1978 aerial. A large parking area is shown at the intersection of Neptune Drive with Orion Street to the west.

1984 aerial - same as 1981 aerial.

1989 plan - same as 1983 plan.

1989 aerial - same as 1984 aerial except a large building is visible directly west of Building 201.

1993 aerial - same as 1989 aerial.

2006 plan - same as 1989 plan except Buildings 216 through 220 are no longer shown on this plan and two buildings are shown to the east (Buildings 221 and 226).

Five ASTs are listed in the NAS AST Database for Building 201:

Tank ID	Cap	Product	Manufacturer	Purpose	TankType	YrRmv	Stat	Remarks Location
A201.0	250	COOKING GR	BAKER	GREASE CONTAINER	SWS		ACT	(EAST SIDE OF BUILDING)
A201.1	330	#1 OIL	MAINE TANK		SWS	1999	REM	INSIDE- RELOCATED TO B19 (PWKS)
A201.2	330	#1 OIL	MAINE TANK		SWS	1999	REM	INSIDE- RELOCATED TO B19 (PWKS)
A201.3	2000	#1 OIL	HIGHLAND	HEATING	DWS		ACT	DUAL FUEL
A201.4	100	DIESEL	HIGHLAND	GENERATOR	DWS		ACT	ADJACENT TO GALLEY

Tank ID	Tank Type	PipeType	Containment
A201.0	NONE	NA	NA
A201.1	NONE	COPP	NONE
A201.2	NONE	COPP	NONE
A201.3	DW	STEEL	DW
A201.4	DW	STEEL	DW

No USTs or oil water separators are listed in the NAS database for Building 201.

HAZARDOUS WASTE STORAGE RECORDS

No hazardous waste was historically stored at Building 201, according to NAS Brunswick Hazardous Waste Manager,

MISCELLANEOUS NOTES

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

(SEE ATTACHED BUILDING FLOOR PLAN AND PHOTOGRAPHS)

INSPECTOR SIGNATURE: _____
Mindi Messmer

PHOTOGRAPHS



No. 1 Building 201 Parcel – NAS Brunswick April 27, 2010
Galley (Neptune Hall) northwest elevation; main entrance canopy at center, emergency diesel generator at left and walk-in freezer addition (grey structure) at right background



No. 2 Building 201 Parcel – NAS Brunswick April 27, 2010
Galley (Neptune Hall) northeast elevation; heating oil AST, located on the northeastern side of the building, partly visible on extreme right of frame



No. 3 Building 201 Parcel – NAS Brunswick April 27, 2010
Building 201 (Galley) southeast elevation; Building 420 (storage) left center of frame in front of the walk-in freezer addition (grey structure)



No. 4 Building 201 Parcel – NAS Brunswick April 27, 2010
Galley kitchen area



No. 4 Building 201 Parcel – NAS Brunswick
Galley mess hall

April 27, 2010



No. 7 Building 201 Parcel – NAS Brunswick
Galley scullery

April 27, 2010



No. 7 Building 201 Parcel – NAS Brunswick April 27, 2010
Electrical transformer located north of Building 201, switch box and generator in background.



No. 8 Building 201 Parcel – NAS Brunswick April 27, 2010
Building 201 fuel oil AST located on the northeastern corner of the building



No. 9 Building 201 Parcel – NAS Brunswick
Building 420 (storage) southwest elevation

August 25, 2010



No. 10 Building 201 Parcel – NAS Brunswick
Building 420 (storage) interior

August 25, 2010