

N60087.AR.002603
NAS BRUNSWICK
5090.3a

AFTER ACTION REPORT FOR MUNITIONS AND EXPLOSIVES OF CONCERN TIME
CRITICAL REMOVAL ACTION AT FORMER MUNITIONS BUNKER WEST AREA NAS
BRUNSWICK ME
1/1/2012
TETRA TECH

**REPORT
FOR
MUNITIONS AND EXPLOSIVES OF CONCERN
TIME CRITICAL REMOVAL ACTION
AT
FORMER MUNITIONS BUNKER WEST AREA

NAVAL AIR STATION BRUNSWICK
BRUNSWICK, MAINE

COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY CONTRACT
N62470-08-D-1001
CONTRACT TASK ORDER WE09**

Submitted to:

**Naval Facilities Engineering Command Mid-Atlantic
9742 Maryland Avenue
Norfolk, Virginia 23511**



January 2012

Submitted by:

**Tetra Tech
234 Mall Boulevard, Suite 260
King of Prussia, Pennsylvania 19406**

**AFTER ACTION REPORT
FOR
MUNITIONS AND EXPLOSIVES OF CONCERN (MEC)
TIME CRITICAL REMOVAL ACTION
AT
FORMER MUNITIONS BUNKER WEST AREA (FMBW)**

**NAVAL AIR STATION BRUNSWICK
BRUNSWICK, MAINE**

**COMPREHENSIVE LONG-TERM
ENVIRONMENTAL ACTION NAVY (CLEAN) CONTRACT**

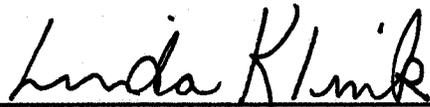
**Submitted to:
Naval Facilities Engineering Command Mid-Atlantic
9742 Maryland Avenue
Norfolk, Virginia 23511**

**Submitted by:
Tetra Tech
234 Mall Boulevard, Suite 260
King of Prussia, Pennsylvania 19406**

**CONTRACT NUMBER N62470-08-D-1001
CONTRACT TASK ORDER WE09**

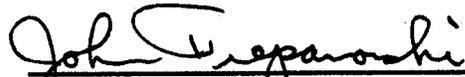
JANUARY 2012

PREPARED UNDER DIRECTION OF:



**LINDA KLINK, P.E.
TASK MANAGER
TETRA TECH
PITTSBURGH, PENNSYLVANIA**

APPROVED FOR SUBMISSION BY:



**JOHN J. TREPANOWSKI, P.E.
PROGRAM MANAGER
TETRA TECH
KING OF PRUSSIA, PENNSYLVANIA**



**JEFF ORIENT
PROJECT MANAGER, ACTIVITY COORDINATOR
TETRA TECH
PITTSBURGH, PENNSYLVANIA**

TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE NO.</u>
ACRONYMS	v
1.0 EXECUTIVE SUMMARY	1-1
2.0 INTRODUCTION.....	2-1
2.1 PURPOSE OF REPORT.....	2-1
2.2 SCOPE OF WORK	2-1
2.3 REGULATORY FRAMEWORK	2-1
3.0 CURRENT, DETERMINED, OR ANTICIPATED FUTURE LAND USE.....	3-1
4.0 SITE DESCRIPTION.....	4-1
4.1 NAS BRUNSWICK INSTALLATION HISTORY	4-1
4.2 FORMER MUNITIONS BUNKER WEST	4-3
4.2.1 Known MEC Areas.....	4-3
4.2.2 Suspected MEC Areas.....	4-3
4.2.3 Ordnance Penetration Estimates.....	4-4
5.0 REMOVAL ACTION METHODS AND TECHNOLOGY	5-1
5.1 RELATIVE EFFECTIVENESS	5-1
5.1.1 UXO Operations	5-1
5.1.2 MEC/MPPEH Management Operations.....	5-5
5.1.3 UXO Survey Instrumentation	5-5
5.1.4 Personnel	5-8
5.2 LIMITATIONS OF TECHNOLOGIES USED.....	5-8
5.3 EFFECTS ON RESIDUAL HAZARD/RISK.....	5-9
5.4 LESSONS LEARNED	5-9
6.0 RATIONALE FOR VARIATIONS FROM APPROVED ESS.....	5-1
7.0 AREAS WHERE MUNITIONS RESPONSE ACTIVITIES WERE NOT CONDUCTED	6-1
8.0 MEC AND MPPEH FOUND AND/OR RECOVERED	8-1
9.0 PROJECT QC AND QA REPORTS.....	9-1
10.0 LAND USE CONTROLS IMPLEMENTED	10-1
11.0 PROVISIONS FOR LONG-TERM MANAGEMENT	11-1
12.0 REQUESTS TO CANCEL EXCLUSION ZONE (EZ) OR OTHER APPROVALS	12-1
13.0 MAPS.....	13-1
13.1 CURRENT, DETERMINED, OR ANTICIPATED FUTURE USE	13-1
13.2 RESPONSE ACTIONS AREAS AND CLEARANCE DEPTH.....	13-1
13.3 AREAS WHERE RESPONSE ACTIONS WERE NOT PERFORMED.....	13-1
13.4 MC SAMPLING LOCATIONS	13-1
13.5 RESIDUAL MUNITIONS HAZARD AND CHEMICAL RISK	13-1

TABLE OF CONTENTS (Continued)

14.0	GEOPHYSICAL MAPPING INFORMATION.....	14-1
15.0	DIG SHEETS	15-1
16.0	COLOR PHOTOGRAPHS OF ACTIVITIES AND RECOVERED MEC	16-1
17.0	VIDEOTAPE OF ACTIVITIES AND RECOVERED MED.....	17-1
18.0	DESCRIPTION AND RESULTS OF LABORATORY ANALYSES OF MC.....	18-1
19.0	ARCHEOLOGICAL SITES/ENVIRONMENTALLY SENSITIVE AREA ENCOUNTERED	19-1
20.0	REFERENCES.....	20-1

APPENDICES

- A FIELD ACTIVITY LOGS
- B DAILY FIELD QC/SAFETY LOGS
- C PHOTOGRAPHS OF SITE ACTIVITIES

TABLES

NUMBER

- 5-1 Dig Sheet—Target Excavation Field Tracking Form, Target Anomaly Locations Identified During the MEC SI
- 5-2 Root Cause Evaluation of “No Finds” of MEC SI Target Anomalies
- 5-3 Target Excavation Field Tracking Form, Meandering-Path Transects in Wooded Area
- 9-1 Quality Requirements for UXO Support to the Navy
- 11-1 Conceptual Site Model Information Profile

FIGURES

NUMBER

- 2-1 TCRA Site Locations
- 2-2 Former Munitions Bunker West Area - Site Location
- 5-1 Time Critical Removal Action Results
- 5-2 Instrument Verification Strip Locations and GPS QC Locations
- 11-1 MEC Exposure Pathway Analysis

ACRONYMS

AOC	Area of Concern
APP	Accident Prevention Plan
bgs	below ground surface
BRAC	Base Realignment and Closure
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CLEAN	Comprehensive Long-Term Environmental Action Navy
CORS	Continuously Operating Reference Station
CSM	Conceptual Site Model
CTO	Contract Task Order
DDESB	Department of Defense Explosive Safety Board
DERP	Defense Environmental Restoration Program
DID	Data Item Description
DoD	Department of Defense
EM	Engineering Manual
EOD	Explosive Ordnance Disposal
EP	Engineering Pamphlet
ESQD	explosive safety quantity distance
ESS	Explosive Safety Submission
EZ	exclusion zone
FCR	Field Change Request
FMBW	Former Munitions Bunker West
FUDS	Formerly Used Defense Sites
FY	Fiscal Year
GPS	global positioning system
GSV	Geophysical System Verification
HASP	Health and Safety Plan
HDOP	horizontal dilution of precision
ISO	Industry Standard Object
ITS	Instrument Test Strip
IVS	Instrument Verification Strip
MC	munitions constituents
MDAS	material documented as safe
MDEH	material documented as an explosive hazard
MEC	munitions and explosives of concern
MGFD	munition with the greatest fragmentation distance

MMRP	Military Munitions Response Program
MPPEH	material potentially presenting an explosive hazard
MRP	Munitions Response Program
MRS	Munitions Response Site
NAS	Naval Air Station
NAVFAC	Naval Facilities Engineering Command
NAVSEA	Naval Sea Systems Command
Navy	Department of the Navy
NCP	National Oil and Hazardous Substances Pollution Contingency Plan
NFA	no further action
NOSSA	Navy Ordnance Safety and Security Activity
NOSSAINST	NOSSA Instruction
OP	Operations Pamphlet
OPNAVINST	Office of the Chief of Naval Operations Instructions
OSHA	Occupational Safety and Health Administration
PA	Preliminary Assessment
PDOP	position dilution of precision
POC	Point of Contact
QA	quality assurance
QC	quality control
SARA	Superfund Amendments and Reauthorization Act
SI	Site Inspection
SOW	Scope of Work
SUXOS	Senior Unexploded Ordnance Supervisor
TCRA	Time Critical Removal Action
TP	Technical Paper
USACE	United States Army Corps of Engineers
U.S.C	United States Code
UXO	Unexploded Ordnance
UXOQCS	UXO Quality Control Specialist
UXOSO	UXO Safety Officer

1.0 EXECUTIVE SUMMARY

Tetra Tech was retained by the United States Department of Navy (Navy) and funded by Naval Facilities Engineering Command (NAVFAC) Mid-Atlantic to perform a Time Critical Removal Action (TCRA) at Site 12 Explosive Ordnance Disposal (EOD) area and Former Munitions Bunker West (FMBW) Area at Naval Air Station (NAS) Brunswick, Maine. The work was conducted for Contract Task Order (CTO) WE09 under the Comprehensive Long-Term Environmental Action Navy (CLEAN) Contract No. N62470-08-D-1001. The NAS Brunswick TCRA was completed in approximately 11 weeks beginning May 27, 2010 (installation of portable Type 2 magazines and utility clearances) and ending October 1, 2010 [material documented as safe (MDAS) removal from site]. This report addresses the FMBW portion of the project.

The purpose of the TCRA investigation at FMBW Area was to confirm the absence of munitions and explosives of concern (MEC). The TCRA was performed concurrently with Site 12 EOD Area resulting in an efficient operation. The FMBW Area investigation began on August 2 and was completed on August 11, 2010. The total area included in the FMBW Area investigation was approximately 29 acres. The FMBW Area investigation included reacquisition/investigation/excavation of 110 target anomaly locations throughout the site using hand tools to investigate subsurface anomalies identified during the previous MEC Site Inspection (SI) geophysical investigation conducted in 2008. In addition, a meandering-path detector-aided survey was conducted in the nearby woods, which resulted in identification, investigation, and manual excavation of 78 additional anomalies. None of the 188 hand digs resulted in munitions-related finds, except for one .30 caliber expended blank small arms cartridge case.

A total of 27 of the 110 target SI anomaly locations classified as "No Finds," and the preponderance of evidence suggests there were no MEC/material potentially presenting an explosive hazard (MPPEH) associated with these locations. Twenty-one of these No Find anomalies were at apparent depths greater than the planned maximum excavation depth of 1 foot below ground surface (bgs); the maximum depth where munitions-related items were expected. One anomaly was not expected to produce an item in the subsurface; the purpose of the excavation at this location was to confirm that no subsurface items were present below a surface non-munitions debris item (tire rim) identified during the MEC SI. Five of the 27 anomalies were close to the runway's electrified fence producing a suspected false positive anomaly and four anomalies were likely a result of uneven ground surface, magnetic rocks, or noise.

The non-munitions related items identified at FMBW Area included: nails, scrap metal, wire, fencing, a brass plate, metal chain with hooks, steel bars/posts, hydraulic cylinders, and wire rope.

Project: MEC Time Critical Removal Action FMBW Area
Site Name/Project Name: NAS Brunswick
Site Location(s): FMBW Area

Title: Report FMBW Area
Revision Number: 1
Revision Date: January 2012

No MEC/material documented as an explosive hazard (MDEH) was found at FMBW Area; therefore, there were no MEC/MDEH clearance operations required at FMBW Area, and the absence of MEC was confirmed.

2.0 INTRODUCTION

2.1 PURPOSE OF REPORT

This Report for the Time Critical Removal Action (TCRA) of munitions and explosives of concern (MEC) describes the technical approach and results of the MEC TCRA at Munitions Response Program (MRP) site, Former Munitions Bunker West (FMBW) Area at Naval Air Station (NAS) Brunswick, Maine (Figure 2-1). This TCRA was conducted as part of the same field event as the TCRA at Site 12 Explosive Ordnance Disposal (EOD) Area. Tetra Tech performed this work under the Comprehensive Long-Term Environmental Action Navy (CLEAN) Contract Number N62470-08-D-1001, Contract Task Order (CTO) WE09. Request Navy Ordnance Safety and Security Activity (NOSSA) N53 verify that the work performed was in accordance with the approved ESS.

2.2 SCOPE OF WORK

The purpose of the MEC TCRA at FMBW Area was to confirm the absence of MEC in this area. Information and data gathered during the FMBW Area TCRA was used, as appropriate, to update the Conceptual Site Model (CSM) for this area.

At FMBW Area, the investigation included meandering-path detector-aided surface surveys within the FMBW wooded area, at approximately 100-foot path spacing. An intrusive investigation of anomalies using hand tools was also conducted to confirm the absence of MEC at FMBW Area to an estimated maximum depth of 1 foot at targeted locations identified during the MEC Site Inspection (SI) within the operational area and as necessary within the wooded area. This subsurface investigation was conducted to evaluate the future unrestricted land use scenario related to potential explosive hazards. Figure 2-2 presents the location of FMBW Area.

2.3 REGULATORY FRAMEWORK

The regulatory process for managing the Department of the Navy's (Navy) Military Munitions Response Program (MMRP) sites is guided by a complex mixture of federal, state, and local laws, as well as Department of Defense (DoD) and Navy regulations and guidance. The key legislation, policy, and guidance directing the program includes, but is not limited to, the following:

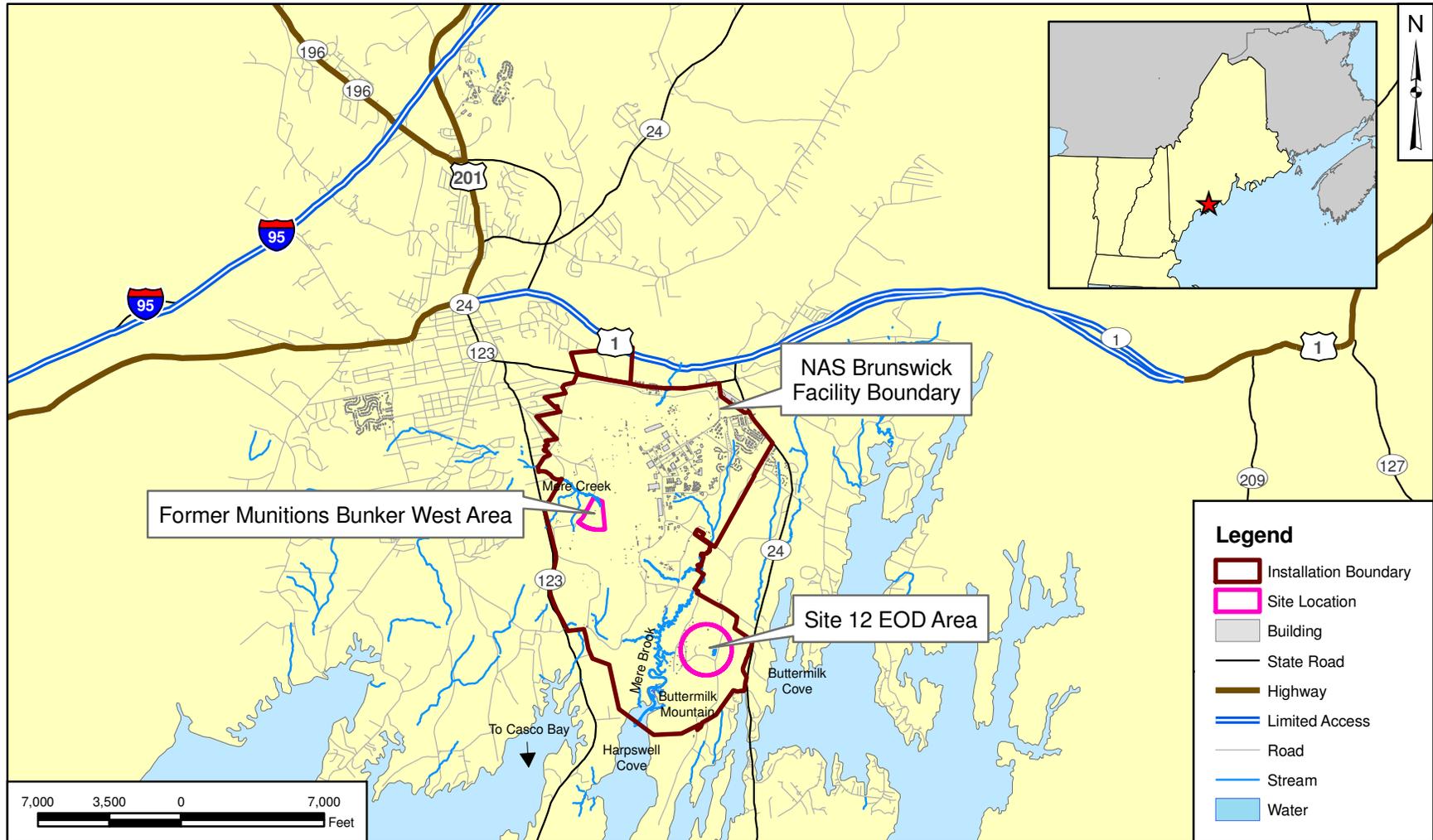
- Navy Munitions Response Program Guidance (Navy, 2005) states that munitions response will be conducted in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and National Oil and Hazardous Substances Pollution Contingency Plan (NCP).

- Management Guidance for the Defense Environmental Restoration Program (DoD, 2001). The history of the Defense Environmental Restoration Program (DERP) dates back to the Superfund Amendments and Reauthorization Act (SARA) of 1986. The scope of the DERP is defined in 10 United States Code (U.S.C.) 2701(b), which states the following:

“Goals of the program shall include the following: ... (1) The identification, investigation, research and development, and cleanup of contamination from hazardous substances, and pollutants and contaminants. (2) Correction of other environmental damage (such as detection and disposal of unexploded ordnance) which creates an imminent and substantial endangerment to the public health or welfare or to the environment...”

- Fiscal Year (FY) 02 National Defense Authorization Act (Sections 311 and 312) reinforced DoD's 2001 DERP Management Guidance by tasking the DoD to develop and maintain an inventory of defense sites that are known or suspected to contain MEC and MC. Section 311 requires DoD to develop a protocol for prioritizing defense sites for response activities in consultation with states and tribes, and Section 312 requires DoD to create a separate program element to ensure that DoD can identify and track munitions response funding. The 2001 Management Guidance for the DERP and 2002 National Defense Authorization Act, described here, established the MRP. The Navy baseline inventory of sites was completed in FY02 and was used to establish the sites/areas of concern (AOCs) where Preliminary Assessments (PAs) were needed to further evaluate the potential for MEC and MC.

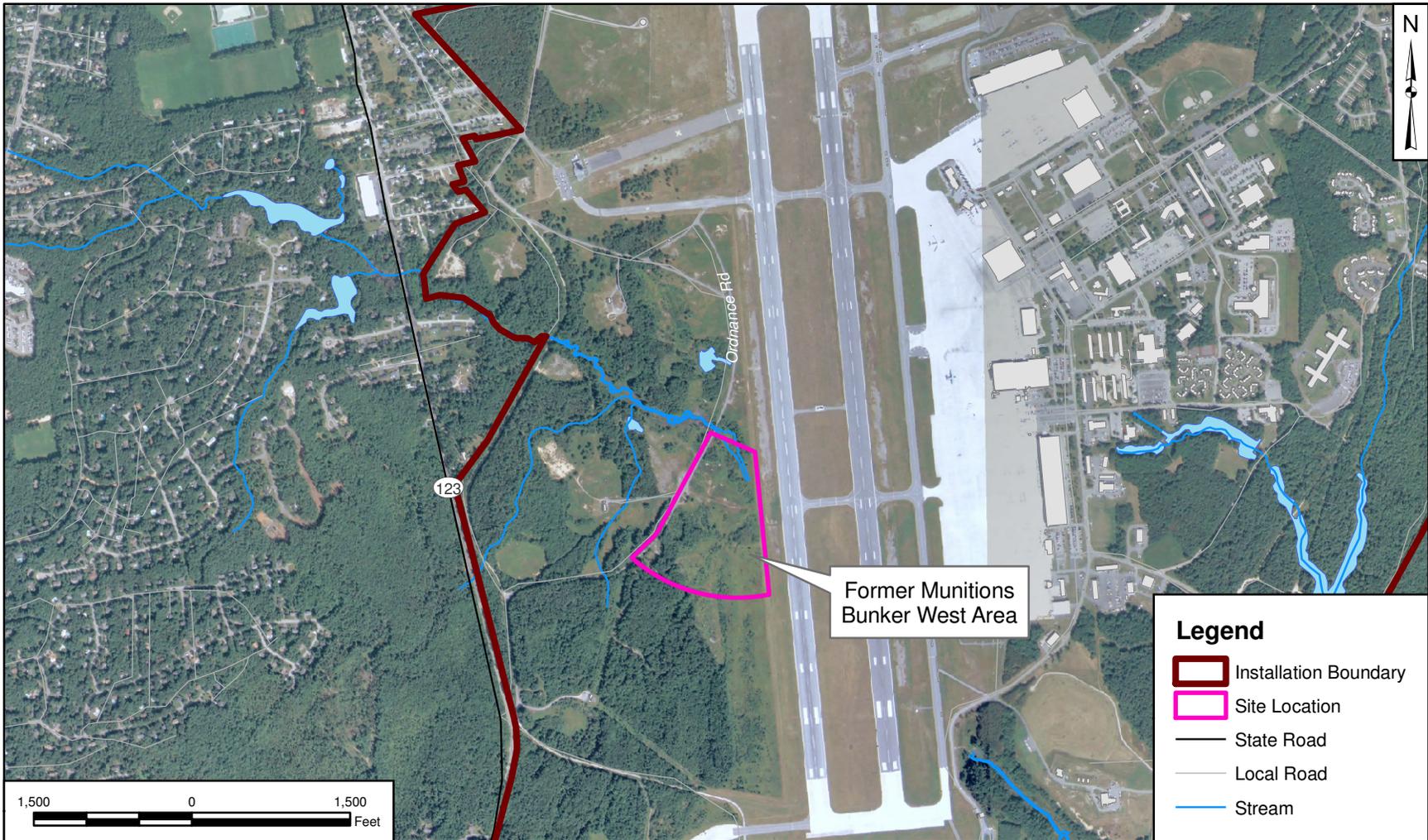
TCRA activities conducted at the FMBW Area were performed in accordance with the TCRA Work Plan, CERCLA, Sections 104 and 121, and the NCP. All activities conducted during this TCRA involving work in areas potentially containing MEC hazards were conducted in accordance with the NOSSA-approved FMBW Area Explosive Safety Submission (ESS) and local, state, and federal regulations to include Office of the Chief of Naval Operations Instructions (OPNAVINST) 8020.15 (Navy, 2003), Naval Sea Systems Command (NAVSEA) Operations Pamphlet (OP) 5 (NAVSEA, 2005), NOSSA Instructions (NOSSAINST) 8020.15B (Navy, 2009), DoD 6055.9-Std. (DoD, 2008), Engineer Pamphlet (EP)-75-1-2 [United States Army Corps of Engineers (USACE), 2004], and all other Navy and DoD requirements regarding personnel, equipment, and procedures.



DRAWN BY T.WHEATON	DATE 08/26/09
CHECKED BY E. LOVE	DATE 02/03/11
COST/SCHEDULE AREA	
SCALE AS NOTED	


TETRA TECH
 TCRA SITE LOCATIONS
 NAVAL AIR STATION BRUNSWICK
 BRUNSWICK, MAINE

CONTRACT NUMBER CTO WE09	
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. FIGURE 2-1	REV 0



Legend

- Installation Boundary
- Site Location
- State Road
- Local Road
- Stream

DRAWN BY T. WHEATON	DATE 02/03/11
CHECKED BY E. LOVE	DATE 02/03/11
COST/SCHEDULE AREA	
SCALE AS NOTED	



FORMER MUNITIONS BUNKER WEST AREA - SITE LOCATION
NAVAL AIR STATION BRUNSWICK
BRUNSWICK, MAINE

CONTRACT NUMBER CTO WE09	
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. FIGURE 2-2	REV 0

3.0 CURRENT, DETERMINED, OR ANTICIPATED FUTURE LAND USE

NAS Brunswick is designated for closure and is undergoing property transfer in accordance with the 2005 recommendations of the Base Realignment and Closure (BRAC) commission, with an operational closure date of September 15, 2011. Two former munitions magazines remain within the FMBW Area boundary, and both are currently unused and empty. FMBW Area was so named because munitions magazines were formerly located at the site; these magazines are not related to the current MEC concerns at the site. Currently, FMBW Area is undeveloped and unused with the exception of Ordnance Road, which forms the western boundary of the site. A small communications radar-type structure is located approximately 0.5 mile northwest of the site to support runway operations; FMBW Area has been part of the buffer area for the runways since 1943.

Planned future land use for FMBW Area includes: College Use Conservation District (Education/ Natural Area) and Aviation Related (Aircraft Operations).

4.0 SITE DESCRIPTION

4.1 NAS BRUNSWICK INSTALLATION HISTORY

NAS Brunswick occupies approximately 3,200 acres in Brunswick, Cumberland County, Maine. The NAS Brunswick Main Base is situated between the Androscoggin River and Casco Bay southeast of the Town of Brunswick and approximately 25 miles northeast of Portland, Maine. It is located approximately 5 miles inland from the Atlantic Ocean and is bordered by Route 123 and Route 1 on the western and northern sides, respectively, and is adjacent to Route 124 on the eastern side (see Figure 2-1).

NAS Brunswick was first commissioned on April 15, 1943 with a primary mission of training of British Naval Command pilots. The station carried out a secondary mission of anti-submarine warfare during World War II. The first United States squadron to arrive at NAS Brunswick was an air scouting squadron. When the squadron began operations, the station consisted of only one-half mile of runway and had no hangars or operations tower. When Royal Canadian Air Force crews arrived, construction was still underway on the runways and various other parts of the station. Over the next few years, the station experienced tremendous growth and expansion of available facilities and infrastructure. At the height of its wartime operations, the station supported three auxiliary landing fields, one at Sanford, one at Lewiston, and one at Rockland, Maine.

The base remained active for 4 years and was subsequently deactivated in 1947. The land and buildings were leased jointly to the University of Maine and Bowdoin College as annexes to ease overcrowding caused by the G.I. Bill student influx. The University of Maine and Bowdoin College terminated their leases in 1949, and the station was taken over by the Brunswick Flying Service. At this time, the buildings that had housed military personnel and equipment were put to other uses. Hangar One was converted to a skating rink, Hangar Two and the operations tower were used for a civilian flying school, Hangar Three housed automobiles, ammunitions magazines became mushroom farms, and shrubbery nurseries were located in the northern portion of the station.

Following this period, the station was selected by the Navy as a prime center for development. During the subsequent development period, the United States Air Force reached an agreement with the Navy authorizing the construction of an Air Force Control and Warning Facility at the station as a part of the continental circumferential radar screen.

On March 15, 1951, the dormant air station was recommissioned as a Naval Air Facility with the established mission of supporting three land-plane patrol squadrons, and one Fleet Aircraft Service Squadron, and with a planned future mission as a master jet air station. The station also retained the

mission of anti-submarine warfare. In December 1950, the Navy requested funds from Congress to be used for this master jet project, which required dual 8,000-foot runways and two outlying fields, one for gunnery and one for carrier practice landings. In addition, the Secretary of Defense submitted a request to Congress for funding in June 1951 to be used for additional barracks, officers' quarters, enlisted men's clubs, a control tower, storage, communication buildings, and new galleys and mess facilities.

Following the reactivation period, several new permanent facilities were erected to replace the World War II "temporary" buildings. New facilities included a modern operations tower, three-deck barracks, and a large mess hall. In addition to these facilities, a new enlisted men's club, Navy Exchange, and Bachelor Officers' Quarters were constructed. During 1951, the designation of the facility was officially changed to Naval Air Station. The Arctic Survival Training School was established in September 1956 to train personnel deploying to the Arctic in north country survival.

To practice rocket and bombing training, in 1958, the Navy acquired by condemnation Seal Island, located south of the main facility. Bombing and rocket training continued through the early 1960s along with anti-submarine warfare training. Units trained at NAS Brunswick served in action during the Lebanon crisis in the fall of 1958, when squadrons of Fleet Air Wing Three provided anti-submarine protection for the Sixth Fleet, then operating in the Mediterranean Sea. Also in 1958, a small detachment of Marines from the 2nd Marine Division from Camp Lejeune, North Carolina, was assigned to NAS Brunswick. In March 1959, the Marine detachment became the Marine Barracks of NAS Brunswick. The Marine Barracks eventually assumed full surveillance of the entrances from the civilian security police.

The Navy declared Seal Island excess property in 1965 and began to transfer the island to the National Park Service (Department of Interior) through the General Services Administration. The transfer was completed sometime after 1972. Today, Seal Island is in the Formerly Used Defense Sites (FUDS) program managed by USACE.

On July 1, 1971, Commander Patrol Wings United States Atlantic Fleet/Commander Patrol Wing Five established its headquarters at NAS Brunswick. In the late 1990s, base consolidation efforts resulted in the demolition of surplus buildings around the installation. For over 40 years, six squadrons (Patrol Squadrons 8, 10, 11, 23, 26, and 44) were based at NAS Brunswick. The BRAC process resulted in the decommissioning of three squadrons (11, 23, and 44), and reserve squadrons VP-92 and VR-62. Through 2009, three patrol squadrons flying the P3 Orion performed their duties at NAS Brunswick. In addition, two reserve squadrons were also based at NAS Brunswick along with VPU-1 mission, the Naval Reserve Center, and the Air Reserve Center. NAS Brunswick also provided support for ships at Bath, Maine, and various northeastern Naval activities. The facility was designated for closure by the BRAC Commission in 2005 and has a closure date of September 15, 2011.

4.2 FORMER MUNITIONS BUNKER WEST

FMBW Area is approximately 29 acres in size and is located west of the runways on the western half of NAS Brunswick. The area is bordered by a section of the inner electronic deer fence that surrounds the runways to the east, Mere Brook to the north, Ordnance Road to the west, and former Munitions Bunkers Road to the south. The area is accessible via Ordnance Road located near the runways (see Figure 2-2).

FMBW Area was used sporadically between 1980 and 2000 by United States Marines stationed at the installation to conduct munitions-related security training. Blank small arms ammunition, practice grenades, and limited pyrotechnics (simulators and smoke devices) were used during the training. Reportedly, clearance sweeps of the areas where training took place were conducted following each training exercise, and all debris was removed from the ground surface during these sweeps. Therefore, the potential for MEC was determined to be low due in part to the types of training conducted at the site and the reported procedure of clearing the area of debris after training activities. The types of munitions used during the training had explosives safety quantity distances (ESQDs) in the range of a few yards and thereby would not pose an explosives safety hazard to runway operations, storage magazines south of the site, or nearby local populations. The area is no longer used to conduct security training. The area was never formally established as a range at NAS Brunswick; the close proximity of the site to the runways, residential and commercial buildings, and magazines made the area impractical to use for significant live-fire munitions training or related uses.

According to a 1946 historical map included in the PA (Malcolm Pirnie, 2006), eight storage magazines were located along Ordnance Road; only three of these magazines were located in the FMBW Area. Today, only two former munitions magazines remain within the FMBW Area boundary, and both are currently empty. The magazines are constructed primarily of steel with concrete floors. The other six original munitions magazines have been demolished.

4.2.1 Known MEC Areas

There are no areas at FMBW Area that are known to contain MEC.

4.2.2 Suspected MEC Areas

Based on the results of the previous SI, there were no areas at FMBW Area suspected to contain MEC.

The entire 29-acre FMBW Area was originally designated a suspect MEC area based on the PA (Malcolm Pirnie, 2006). Therefore, an MEC SI was conducted at FMBW Area, which consisted of detector-aided

surface and subsurface geophysical surveys. MEC SI field work was conducted at FMBW Area, Site 12 EOD Area, and the Quarry Area site in July and August 2008 (Tetra Tech, 2009a). At FMBW Area, no munitions-related items were detected during the detector-aided surface surveys conducted during the MEC SI. Several non-munitions-related scrap objects were detected, including a tire, rim, wire, and steel fencing pile. Also, several rocks were found to be naturally magnetic. For the subsurface, in general, most of the surveyed area was found to be devoid of significant unexplained magnetic anomalies (e.g., underground utilities). During the subsurface geophysical survey, there were no large or high-intensity anomalies that could not be explained by surficial non-munitions metallic debris. However, numerous (110) small target anomalies were identified. The intrusive investigations planned for the TCRA were conducted to confirm the absence of subsurface MEC at FMBW Area.

4.2.3 Ordnance Penetration Estimates

All of the munitions reported to have been used at the site were deployed on the ground surface and were not designed to penetrate the ground surface (Malcolm Pirnie, 2006).

5.0 REMOVAL ACTION METHODS AND TECHNOLOGY

5.1 RELATIVE EFFECTIVENESS

The TCRA was effective and confirmed the absence of MEC at FMBW Area; no MEC or material documented as an explosive hazard (MDEH) was found during the TCRA. The TCRA investigation provides a basis for a No Further Action (NFA) decision for MEC for the site.

Munitions Response Site (MRS) characterization and investigation activities to support the TCRA at FMBW Area were conducted in accordance with the Work Plan (Tetra Tech, 2009b) and included the following:

- Limited clearing and grubbing of site vegetation for TCRA.
- Meandering-path detector-aided surface surveys within the FMBW wooded area, with a path spacing of approximately 100 foot.
- Anomaly investigation to confirm the absence of MEC at FMBW Area to an estimated maximum depth of 1 foot at targeted locations identified during the MEC SI. Excavations were conducted in the former operational and wooded areas using manual procedures until the sidewalls and bottom of each small excavation were clear of anomalies or until specified maximum dimensions were attained (1 foot depth and 2 foot width).
- Non-munitions debris, for example, tire rims and shovel heads, located during detector-aided surveys were moved to a nearby location; marshalling and off-site disposal of non-munitions debris has been deferred. After removal of the non-munitions debris, a detector-aided survey of the cleared locations was conducted to ensure that no anomalies were present beneath the non-munitions debris.

5.1.1 UXO Operations

TCRA activities were conducted between August 2 and August 11, 2010 at FMBW Area.

5.1.1.1 Mobilization, Set-Up, and Preliminary Activities

All personnel mobilized to NAS Brunswick met the Occupational Safety and Health Administration (OSHA) training and medical surveillance requirements specified in the Health and Safety Plan (HASP)/Accident Prevention Plan (APP) (Tetra Tech, 2009c). All Unexploded Ordnance (UXO)

Technicians conducting work at NAS Brunswick had the appropriate level of training and experience as stated in Department of Defense Explosives Safety Board (DDESB) Technical Paper (TP) 18 (DDESB, 2004). As part of the mobilization process, site-specific training, which included, but was not limited to, a review of the Work Plan and HASP/APP for all on-site personnel (signature pages provided in Appendix A and B). The purpose of this training was to ensure that personnel fully understood the operational procedures and methods to be used for the project and included individual duties and responsibilities, and all safety and environmental concerns associated with these MEC operations. Any personnel who arrived at the site after the initial training session were trained upon arrival at NAS Brunswick. A UXO Technician III conducted all training.

Project equipment for the UXO survey was allocated through Tetra Tech sources and/or procured through local leases/purchases. All equipment, regardless of source, was checked to ensure its completeness and operational readiness (equipment inspection checklists are presented in Appendix B). All instruments and equipment that required routine maintenance and/or calibration were checked initially upon arrival at NAS Brunswick, prior to use each day, and according to the Work Plan-established schedules.

5.1.1.2 Initial Site Preparations

During initial set-up at and prior to bringing non-UXO personnel or mechanized equipment on site, the UXO team conducted visual and detector-aided surface surveys within the area of operation. Non-munitions-related metallic debris was removed, and targeted locations identified during the MEC SI within the former operational area of FMBW Area were flagged. Vegetation removal was conducted, as necessary, to facilitate site set-up. After all surface non-munitions-related metallic debris was removed, the Senior UXO Supervisor (SUXOS) allowed non-UXO personnel and mechanized equipment on site in cleared areas, as necessary.

A Dig Safe utility clearance inspection was completed at FMBW Area for public utilities; public utilities were identified within 10 feet of Ordnance Road (Dig Safe Clearance Number 20102410549). A NAS Brunswick Excavation Clearance Permit (Dig Permit number 090058) was issued for FMBW Area prior to any investigation activities. Additionally, a Dig Safe utility clearance inspection was completed at the Instrument Verification system (IVS) [formerly called an Instrument Test Strip (ITS)] located near the FMBW Area (Dig Safe Clearance number 20102210903). An NAS Brunswick excavation clearance permit (Dig Permit number 090054) was also issued for this IVS location.

Dig Safe permits are included in Appendix A.

Exclusion Zones

Explosive safety required that an exclusion zone (EZ) be established and maintained at FMBW Area before to keep non-essential personnel from being exposed to hazardous blast overpressure and fragments resulting from an unintentional detonation of the munition with the greatest fragmentation distance (MGFD). The EZ for the FMBW Area was established at a minimum of 78 feet from the outer edge of the FMBW Area boundary.

Once established, the EZ was controlled by barricades at access points. Access to the EZ was limited to personnel essential to the operations being conducted. However, under specific conditions and on a case-by-case basis, it was possible for authorized visitors to be granted access to the EZ when operations were being conducted

Vegetation Management

Limited brush cutting was required within the open former operational area of FMBW Area to prepare for target anomaly reacquisition and investigation activities. Vegetation was cleared to a level no greater than 12 inches above the ground surface to permit passage of detection equipment. Vegetation management was conducted by UXO Technicians in accordance with the TCRA Work Plan (Tetra Tech, 2009b). The following types of equipment/techniques were used for brush cutting:

- Hand-held brush cutters (string or blade) were used to clear light vegetation and small grassy areas.
- Chain saws were used in heavier brush areas and to cut small trees up to 2 inches in diameter.
- Tractor-mounted brush hogs were used in select locations where the grass was so tall that pin flags marking anomaly locations could not be seen.

Vegetation management activities were not necessary within the wooded area of the site.

Site Accessibility, Traffic Control, and Security

FMBW Area is located within the NAS Brunswick perimeter fence and has restricted access. NAS Brunswick security personnel monitor all access to this area, and frequent motor vehicle patrols are conducted as part of the access control program to areas other than the NAS Brunswick facility gates. The FMBW Area is a buffer area for the runway and as such falls under the access control program.

Site security was maintained during TCRA activities to ensure that non-essential personnel did not access the area during field operations. Barricades were positioned with Bravo flags on access routes a minimum of 200 feet from the edge of the site. Notification procedures were posted on the barricades to

ensure that non-essential personnel notified the team working in the area prior to entering the area during active operations. Barricades and Bravo flags were removed when operations stopped for the day. Further, all equipment was secured and brought to a designated location at the end of each day.

5.1.1.3 Methodology

Tetra Tech personnel utilized analog hand-held detectors to complete the detector-aided surface surveys in the wooded areas of FMBW Area and for SI target anomaly reacquisition of the former operational area. A Trimble global positioning system (GPS) unit was used during data collection for precise navigation.

The total area included in the FMBW Area TCRA was approximately 29 acres. Within the former operational area (i.e., non-wooded areas), subsurface anomalies designated for investigation based on the results of the geophysical survey conducted during the MEC SI were cleared during the TCRA to an approximate maximum depth of 1 foot bgs. A total of 110 targeted subsurface anomalies were investigated (Figure 5-1). Table 5-1 presents the Target Excavation Field Tracking Form for these anomalies. Non-munitions items were identified as the source of 82 of the 110 anomalies, a .30 caliber expended blank small arms cartridge case was found at one anomaly location, and 27 of the target anomaly locations that were classified as "No Finds." Table 5-2 presents the root cause evaluation of the 27 No Finds, which were attributed to (1) equipment bumps, magnetic rocks, and/or noise; (2) anomalies apparently deep/deeper than the 1 foot bgs target intrusive investigation depth; (3) the runway electrified fence; and (4) a tire rim on the surface.

For the wooded portion of FMBW Area, a detector-aided surface survey was conducted using approximately 100-foot-spaced survey transects along meandering paths throughout accessible areas of the site (vegetation management activities were not necessary in the wooded area of the site). Suspect anomalies discovered during the meandering-path detector-aided survey of the wooded area at FMBW were cleared to a maximum depth of 1 foot. The instrumentation used during the surface survey had capabilities to detect items in the shallow subsurface; 78 shallow subsurface anomalies identified in the wooded part of FMBW Area were intrusively investigated (Figure 5-1). The location and description of all anomalies investigated were recorded on the GPS, in field logbooks, and on dig sheets. Table 5-2 presents the Target Excavation Field Tracking Form for these anomalies. All non-munitions items were identified as the source of all the anomalies identified in the wooded area of FMBW Area.

Excavations were conducted using manual procedures until the sidewalls and bottom of each small excavation were clear of anomalies. Each intrusive "dig team" consisted of two qualified UXO personnel including at least one UXO Technician II. Dig teams were supervised by a UXO Team Leader (UXO Technician III) who was able to supervise up to three dig teams at one time as long as visual and verbal

communications were maintained between the UXO Team Leader and his assigned dig teams. Intrusive activities did not begin until the UXO Safety Officer (UXOSO) had given a safety briefing, the UXO Team Leader had given a site-specific safety briefing, communications were established, and all non-essential personnel were evacuated from the area. Each target on the dig sheet at FMBW Area was reacquired and the anomaly center was marked with a pin flag.

5.1.2 MEC/MPPEH Management Operations

No MEC or MPPEH items that were determined to be MDEH were found at FMBW Area; therefore, no MEC/MDEH management activities were conducted during the TCRA.

5.1.3 UXO Survey Instrumentation

5.1.3.1 Instruments

A Schonstedt GA-52Cx (a ferrous metal detector), White's Spectrum XLT (an all-metals detector), and Vallon VMX3 (an all-metals detector), were used for target reacquisition in the former operational area plus for detector-aided survey in the wooded area during the TCRA at FMBW Area. The Schonstedt GA-52Cx was the primary instrument used during detector-aided surface surveys at this site. In addition to the Schonstedt, a White's Spectrum XLT all-metals detector and Vallon VMX3 all-metals detector were used to assist in the location of metal targets with little or no ferrous metal content.

These instruments are analog geophysical instruments and cannot digitally record data but provide an auditory response when metallic items are detected. A Trimble GPS unit was used to record the locations of identified anomalies and to reacquire SI target anomaly data. Digitally recorded data at the site were transferred from the GPS/field storage unit to a computer each day. All raw data files, hard copies, and field notes associated with the field activities will be maintained for the duration of the project. All raw field data were available on site for quality control (QC) checks to verify field and data processing procedures during site activities.

5.1.3.2 Geophysical System Verification

The Geophysical System Verification (GSV) was used to test equipment and procedures in support of FMBW TCRA investigation. The UXOQCS used the GVS to provide rigorous quality assurance (QA)/QC. The GSV generally includes two main processes, an IVS [former an ITS, which was the terminology used during this investigation] and a production area blind seeding program. Blind seeding was not used for the FMBW Area TCRA because it was not applicable. The geophysical survey was completed during the SI and anomalies identified during the MEC SI were reacquired during this investigation. For the wooded

area, the meandering path strategy for the detector-aided survey made blind seeds an impractical QC tool because there was no predetermined path for the survey.

The IVS used for FMBW Area (Figure 5-2) was constructed by the UXO Team. The IVS was performed by each operator with each piece of equipment prior to beginning the intrusive investigation at FMBW Area. The IVS was repeated after each operator, equipment, or battery change. The IVS consisted of an individual survey line where instrument operators searched for seed items (see IVS photographs presented in Appendix C). The IVS was managed by the UXO Quality Control Specialist (UXOQCS). At least one UXO Technician II or higher was present throughout the IVS installation to provide UXO avoidance support.

The specific objectives for the IVS were:

- System Operations: Demonstrate that the UXO detection instruments and navigational equipment were operating properly.
- Detection of Known Objects: Provide a safe area with a known set of isolated objects (e.g., inert munitions or munitions surrogates) to evaluate equipment and operator performance under controlled conditions.
- Evaluate Instrument Sensitivity: Evaluate detection of buried seed items (20 mm diameter and larger). The UXOQCS determined whether the IVS performance was acceptable.

The IVS was seeded by Tetra Tech using Industry Standard Objects (ISO) and seeds were buried blind to the UXO team at various specified depths. The items were buried in the IVS in one straight horizontal line with each seed item approximately 10 feet apart. Each seed item was labeled with a unique identifier, photographed (open hole), and located in relation to the IVS survey ends (IVS photographs presented in Appendix C).

The operators and equipment used for detector-aided surface surveys and FMBW Area intrusive investigations were tested and approved to conduct the work based on the results of the IVS. The IVS was seeded for the duration of the project. After project work was complete, the IVS items were removed from the test strip area, and the holes were backfilled and restored. The Daily IVS Reports are presented in Appendix B.

5.1.3.3 Equipment Checkout

UXO detectors (Schonstedt, White's and Vallon), support equipment, navigation equipment, and operator performance were tested at specific intervals to meet the appropriate acceptance criteria. After equipment arrived on site and prior to completing the IVS, an out-of-box test was performed on all equipment. The out-of-box test was performed at the start of each day of surveying and included an inventory and inspection of all equipment to confirm that all components were present and in good condition. The equipment was then assembled and powered up to ensure that the equipment was functioning. The UXOQCS recorded the results of the checks in the UXOQC logbook (Appendix B).

5.1.3.4 Navigational Equipment

A Trimble GPS was used for navigational data collection and reacquisition of MEC SI data, including target anomalies at FMBW Area. An attempt was made to correlate sensor data with navigational data based on a local third-order monument or survey marker per guidance from Engineering Manual (EM) 1110-1-4009 (USACE, 2007). No survey monuments or benchmarks were in close proximity to the site. Instead, two monitoring wells, 206a and 206b, were used for daily QA by Tetra Tech (Figure 5-2). The daily post-processing of the QA/QC GPS data for FMBW Area yielded no major discrepancies or GPS errors. Positional accuracy was within the manufacturer's standard for the GPS equipment.

GPS accuracy was checked by verifying position dilution of precision (PDOP) or horizontal dilution of precision (HDOP), established using guidance from EM 1110-1-4009 (USACE, 2007). GPS instruments were checked at the start of each day and midway through the workday by direct comparison to the monitoring wells. Positional accuracy achieved was recorded on the Daily QC Report form (Appendix B). Per the Work Plan (Tetra Tech, 2009b), horizontal accuracy of reacquired anomalies (FMBW Area SI targets) was to be 95 percent of anomaly locations within a 1-meter radius of their original surface location as marked on the dig sheets generated during the SI. A Field Change Request (FCR) was completed during the project to clarify the need for this GPS accuracy (FCRs for this project are presented in Appendix A). The GPS served as a navigational guide to position field personnel within meters of the previously detected target location at FMBW Area. Once in the vicinity of the anomaly, targets were reacquired using a real-time detector instrument(s) to allow the operator to identify the exact location of the previous anomaly. Ideally, the radius would be less than 1 meter from the original location; however, due to site conditions, most finds were between 1 and 2 meters from the required surface location pin flag. Table 5-1 notes the distance of each find from the pin flag that marked the original anomaly location.

5.1.4 Personnel

Lists of personnel involved in the TCRA at FMBW Area are presented in Appendices A and B (personnel signature pages are included in Appendix A and B). The UXO Technicians met the qualifications stated in DDESB TP 18 (2004). The field UXO Team included a SUXOS and UXOQCS, who also served the role of UXOSO, and support UXO Technicians.

5.2 LIMITATIONS OF TECHNOLOGIES USED

There were no technology limitations identified for the UXO detector-aided surface survey equipment (Schonstedt GA-52Cx, White's Spectrum XLT, and Vallon). These UXO detectors worked as designed and fulfilled the scope of work (SOW) for FMBW Area. Deeper items in the subsurface (below approximately 18 inches) could not be identified using these instruments; however, the focus of this investigation was to reacquire and identify anomalies in the shallow subsurface up to 1 foot bgs only.

A NOSSA audit conducted between July 7 and July 8, 2010, during the Site 12 EOD Area TCRA, noted a limitation with regard to the GPS unit in that the twice-daily GPS checks did not achieve the 8-inch positional accuracy described in the Work Plan. The 8-inch positional accuracy was identified as the manufacturer's quoted qualifications for the GPS equipment used under ideal field conditions. A field task change modification was issued to remove this requirement as an unnecessary requirement for collection of data during this phase of the project. The Trimble Geo-XH employed by the field staff is the industry standard for handheld GPS equipment and is highly accurate. However, it is not survey grade and cannot reliably and consistently achieve that level of accuracy. Regardless, the location data collected from the GPS units were downloaded from the unit and post-processed on a daily basis. The post-processing refined each data point through differential correction, during which atmospheric conditions and other anomalies in the GPS signal are accounted for and corrected. The post-processing software downloaded control data at a nearby Continuously Operating Reference Station (CORS) and generated a more precise coordinate for a given location. The corrections varied by as little as a few inches to a few feet. Moreover, any discrepancy or offset from the monument locations (i.e., two monitoring wells) could not be universally applied to all point locations. This offset typically varied spatially, which is why differential correction is a more optimal approach. Positional accuracy is site specific and dependent on daily conditions. Documentation of the field task change was addressed in an FCR (presented in Appendix A).

A NOSSA audit was conducted at FMBW Area on August 11, 2010, comments were minor and were addressed via changes made in the field and with FCR forms (presented in Appendix A). A few technology limitations noted included "No Finds" during anomaly reacquisition and the use of blind seed items at FMBW Area.

5.3 EFFECTS ON RESIDUAL HAZARD/RISK

The purpose of the TCRA at FMBW Area was to confirm the absence of MEC and to aid planning for future MC sampling at the site. No MEC was found during the TCRA conducted at FMBW area. Therefore, a residual hazard or risk from MEC at FMBW Area does not appear to be present.

The current and future land use for this site is discussed in Section 3.0.

5.4 LESSONS LEARNED

Lesson learned were recorded in the UXOQCS daily QC logs and discussed with the UXO team during the next day's safety meeting, or sooner if necessary (forms are presented in Appendix B). The Tetra Tech Task Manager was briefed on the lessons learned as soon as necessary.

TABLE 5-1

**DIG SHEET—TARGET EXCAVATION FIELD TRACKING FORM
 TARGET ANOMALY LOCATIONS IDENTIFIED DURING THE MEC SI
 FORMER MUNITIONS BUNKER WEST AREA
 NAVAL AIR STATION BRUNSWICK
 BRUNSWICK, MAINE
 PAGE 1 OF 10**

Anomaly (1)	Instrument(s) for Target Reacquisition	Size of Excavation (inches)/ Shape	Depth of Excavation (inches)	MEC/MDAS Items (2)		Non-Munitions Items	
				Number and Description	Weight	Number and Description	Weight/Location of Find
1	Vallon, White's, Schonstedt	12/circle	12	--	--	3 Nails, 1 axe head	4 Pounds/at the pin flag
2	Vallon, White's, Schonstedt	12/Circle	12	--	--	No Find ⁽³⁾	N/A
3	Vallon, White's, Schonstedt	12/Circle	12	--	--	No Find ⁽³⁾	N/A
4	Vallon, White's, Schonstedt	12/Circle	12	--	--	No Find ⁽³⁾	N/A
5	Vallon, White's, Schonstedt	12/Circle	6	--	--	Scrap (wire rope)	6 Pounds/6 feet southwest of pin flag
6	Vallon, White's, Schonstedt	12/Circle	12	--	--	No Find ⁽³⁾	N/A
7	Vallon, White's, Schonstedt	12/Circle	4 to12	--	--	1 Each too deep 1 each (piece) scrap metal	3 Ounces 1 each/ west of pin flag 1 Each/east of pin flag
8	Vallon, White's, Schonstedt	12/Circle	12	--	--	Unknown item past 1-foot depth	18 Inches south of pin flag
9	Vallon, White's, Schonstedt	12/Circle	12	--	--	No Find ⁽³⁾	N/A
10	Vallon, White's, Schonstedt	15/Circle	4 to 6	--	--	Scrap metal/nails	5 Ounces/at the pin flag
11	Vallon, White's, Schonstedt	12/Circle	2	--	--	Scrap metal (1 piece)	2 Ounces/2 feet north of pin flag
12	Vallon, White's, Schonstedt	12/Circle	12	--	--	No Find ⁽³⁾	N/A

TABLE 5-1

**DIG SHEET—TARGET EXCAVATION FIELD TRACKING FORM
 TARGET ANOMALY LOCATIONS IDENTIFIED DURING THE MEC SI
 FORMER MUNITIONS BUNKER WEST AREA
 NAVAL AIR STATION BRUNSWICK
 BRUNSWICK, MAINE
 PAGE 2 OF 10**

Anomaly (1)	Instrument(s) for Target Reacquisition	Size of Excavation (inches)/ Shape	Depth of Excavation (inches)	MEC/MDAS Items (2)		Non-Munitions Items	
				Number and Description	Weight	Number and Description	Weight/Location of Find
13	Vallon, White's, Schonstedt	12/Circle	12	--	--	Scrap metal (2 pieces)	7 Ounces/2 feet north of pin flag
14	Vallon, White's, Schonstedt	12/Circle	12	--	--	Item past 1-foot depth	7 Feet east of pin flag
15	Vallon, White's, Schonstedt	12/Circle	9	--	--	Scrap metal (2 pieces)	0.75 Pound/3 feet north of pin flag
16	Vallon, White's, Schonstedt	12/Circle	9	--	--	Scrap metal (8 pieces)	1 Pound/2 feet east of pin flag
17	Vallon, White's, Schonstedt	12/Circle	12	--	--	No Find ⁽³⁾	N/A
18	Vallon, White's, Schonstedt	12/Circle	2	--	--	Wire	4 Ounces/6 feet northwest of pin flag
19	Vallon, White's, Schonstedt	12/Circle	4	--	--	Wire	4 Ounces/2 feet west of pin flag
20	Vallon, White's, Schonstedt	12/Circle	12	--	--	Unknown item past 1-foot depth	3 Feet north of pin flag
21	Vallon, White's, Schonstedt	12/Circle	1 to 12	--	--	No Find ⁽³⁾	N/A
22	Vallon, White's, Schonstedt	12/Circle	1	--	--	No Find ⁽³⁾	N/A
23	Vallon, White's, Schonstedt	12/Circle	12	--	--	No Find ⁽³⁾	N/A
24	Vallon, White's, Schonstedt	18/Circle	12	--	--	Scrap metal (1 piece) bolt	4 Ounces/6 feet east of pin flag

TABLE 5-1

**DIG SHEET—TARGET EXCAVATION FIELD TRACKING FORM
 TARGET ANOMALY LOCATIONS IDENTIFIED DURING THE MEC SI
 FORMER MUNITIONS BUNKER WEST AREA
 NAVAL AIR STATION BRUNSWICK
 BRUNSWICK, MAINE
 PAGE 3 OF 10**

Anomaly (1)	Instrument(s) for Target Reacquisition	Size of Excavation (inches)/ Shape	Depth of Excavation (inches)	MEC/MDAS Items (2)		Non-Munitions Items	
				Number and Description	Weight	Number and Description	Weight/Location of Find
25	Vallon, White's, Schonstedt	12/Circle	12	--	--	Scrap (1 piece)	1 Pound/3 feet east of pin flag
26	Vallon, White's, Schonstedt	12/Circle	12	--	--	No Find ⁽³⁾	N/A
27	Vallon, White's, Schonstedt	12/Circle	12	--	--	No Find ⁽³⁾	N/A
28	Vallon, White's, Schonstedt	6/Circle	4	--	--	Scrap aluminum (1 piece)	0.25 Pound/2 feet east of pin flag
29	Vallon, White's, Schonstedt	12/Circle	12	--	--	No Find ⁽³⁾	N/A
30	Vallon, White's, Schonstedt	12/Circle	12	--	--	No Find ⁽³⁾	N/A
31	Vallon, White's, Schonstedt	12/Circle	12	--	--	Fence wire	0.25 Pound/ 3 feet north of pin flag
32	Vallon, White's, Schonstedt	12/Circle	12	--	--	No Find ⁽³⁾	N/A
33	Vallon, White's, Schonstedt	24/Circle	2 to 4	--	--	2 Digs (wire, nail)	1 Pound/ 7 feet and 6 feet from pin flag
34	Vallon, White's, Schonstedt	8/Circle	3	--	--	Scrap (1 piece)	0.25 Pound/1.5 feet from pin flag
35	Vallon, White's, Schonstedt	12/Circle	12	--	--	No Find ⁽³⁾	N/A
36	Vallon, White's, Schonstedt	6 to 12/Circle	8 to 12	--	--	Brass plate/too deep	4 Ounces/3 feet southwest and 5 feet northwest of pin flag

TABLE 5-1

**DIG SHEET—TARGET EXCAVATION FIELD TRACKING FORM
 TARGET ANOMALY LOCATIONS IDENTIFIED DURING THE MEC SI
 FORMER MUNITIONS BUNKER WEST AREA
 NAVAL AIR STATION BRUNSWICK
 BRUNSWICK, MAINE
 PAGE 4 OF 10**

Anomaly (1)	Instrument(s) for Target Reacquisition	Size of Excavation (inches)/ Shape	Depth of Excavation (inches)	MEC/MDAS Items (2)		Non-Munitions Items	
				Number and Description	Weight	Number and Description	Weight/Location of Find
37	Vallon, White's, Schonstedt	12/Circle	3	--	--	Miscellaneous scrap metal	30 Pounds/4 feet north of pin flag
38	Vallon, White's, Schonstedt	12/Circle	12	--	--	No Find ⁽³⁾	N/A
39	Vallon, White's, Schonstedt	12/Circle	12	--	--	Scrap metal	3 Pounds/6 feet north of pin flag
40	Vallon, White's, Schonstedt	12/Circle	12	--	--	Axe head	4 Pounds/4 feet north of pin flag
41	Vallon, White's, Schonstedt	24/Circle	12	--	--	Miscellaneous scrap metal	1 Pound/2 to 7 feet from pin flag
42	Vallon, White's, Schonstedt	12/Circle	12	--	--	No find ⁽³⁾	N/A
43	Vallon, White's, Schonstedt	N/A	N/A	--	--	No find ⁽³⁾	N/A
44	Vallon, White's, Schonstedt	4/Circle	2	--	--	Chain with hooks	35 Pounds/5 feet north of pin flag
45	Vallon, White's, Schonstedt	36/Circle	12	One .30 caliber expended blank small arms cartridge case	0.2 ounce	Scrap metal	1 Pound/variable distances up to 6 feet from pin flag
46	Vallon, White's, Schonstedt	N/A	N/A	--	--	No Find ⁽³⁾	N/A
47	Vallon, White's, Schonstedt	N/A	N/A	--	--	No Find ⁽³⁾	N/A

TABLE 5-1

**DIG SHEET—TARGET EXCAVATION FIELD TRACKING FORM
 TARGET ANOMALY LOCATIONS IDENTIFIED DURING THE MEC SI
 FORMER MUNITIONS BUNKER WEST AREA
 NAVAL AIR STATION BRUNSWICK
 BRUNSWICK, MAINE
 PAGE 5 OF 10**

Anomaly (1)	Instrument(s) for Target Reacquisition	Size of Excavation (inches)/ Shape	Depth of Excavation (inches)	MEC/MDAS Items (2)		Non-Munitions Items	
				Number and Description	Weight	Number and Description	Weight/Location of Find
48	Vallon, White's, Schonstedt	12/Circle	2	--	--	Steel bar	8 Pounds/6 feet northeast of pin flag
49	Vallon, White's, Schonstedt	N/A	N/A	--	--	No Find ⁽³⁾	N/A
50	Vallon, White's, Schonstedt	18/Circle	4	--	--	Metal scrap	4 Pounds/4 feet north of pin flag
51	Vallon, White's, Schonstedt	24/Circle	10 to 12	--	--	Scrap metal/too deep	0.5 Pound/7 feet north and 5 feet East of pin flag
52	Vallon, White's, Schonstedt	15/Circle	5	--	--	Scrap metal (1 piece)	0.25 Pound/1 foot south of pin flag
53	Vallon, White's, Schonstedt	12/Circle	12	--	--	No Find ⁽³⁾	N/A
54	Vallon, White's, Schonstedt	Multiple Digs/Circle	12	--	--	Miscellaneous scrap metal	1 Pound/up to 7 feet from pin flag
55	Vallon, White's, Schonstedt	12/Circle	12	--	--	No Find ⁽³⁾	N/A
56	Vallon, White's, Schonstedt	Multiple Digs/Circle	12	--	--	Miscellaneous scrap metal	3 Pounds/7 feet from pin flag
57	Vallon, White's, Schonstedt	12/Circle	12	--	--	Scrap metal	1 Pound/8 feet south of pin flag
58	Vallon, White's, Schonstedt	14/Circle	8	--	--	Hydraulic cylinder	10 Pounds/5 feet east of pin flag
59	Vallon, White's, Schonstedt	12/Circle	12	--	--	No Find ⁽³⁾	N/A

TABLE 5-1

**DIG SHEET—TARGET EXCAVATION FIELD TRACKING FORM
TARGET ANOMALY LOCATIONS IDENTIFIED DURING THE MEC SI
FORMER MUNITIONS BUNKER WEST AREA
NAVAL AIR STATION BRUNSWICK
BRUNSWICK, MAINE
PAGE 6 OF 10**

Anomaly (1)	Instrument(s) for Target Reacquisition	Size of Excavation (inches)/ Shape	Depth of Excavation (inches)	MEC/MDAS Items (2)		Non-Munitions Items	
				Number and Description	Weight	Number and Description	Weight/Location of Find
60	Vallon, White's, Schonstedt	20/Circle	12 to18	--	--	3 Nails,1 wire	1.5 Pounds/2 to 7 feet from pin flag
61	Vallon, White's, Schonstedt	24/Circle	6 to 8	--	--	Wire rope/miscellaneous scrap	2.5 Pounds/6 feet north of pin flag
62	Vallon, White's, Schonstedt	12/Circle	8	--	--	Metal scrap	9 feet north of pin flag
63	Vallon, White's, Schonstedt	12/Circle	5	--	--	Banding (2 pieces)	0.25 Pound/at the pin flag
64	Vallon, White's, Schonstedt	12/Circle	8 to10	--	--	Scrap metal (4 pieces)	4 Pounds/6 feet east of pin flag
65	Vallon, White's, Schonstedt	15/Circle	4	--	--	Scrap metal (1 piece)	4 Pounds/4 feet from pin flag
66	Vallon, White's, Schonstedt	Multiple Digs/Circle	5 to 6	--	--	Scrap metal (2 pieces)	0.5 Pound/up to 6 feet from pin flag
67	Vallon, White's, Schonstedt	25/Circle	10 to12	--	--	Miscellaneous scrap metal	0.75 Pound/from 2 to 4 feet from pin flag
68	Vallon, White's, Schonstedt	12/Circle	4	--	--	Wire	8 Ounces/at the pin flag
69	Vallon, White's, Schonstedt	12/Circle	6	--	--	Scrap metal (1 piece)	4 Pounds/6 feet north of pin flag
70	Vallon, White's, Schonstedt	18/Circle	12	--	--	Steel post	Unknown, left in ground
71	Vallon, White's, Schonstedt	24/Circle	5	--	--	Steel post/wire	5 Pounds/6 feet east of pin flag

TABLE 5-1

**DIG SHEET—TARGET EXCAVATION FIELD TRACKING FORM
TARGET ANOMALY LOCATIONS IDENTIFIED DURING THE MEC SI
FORMER MUNITIONS BUNKER WEST AREA
NAVAL AIR STATION BRUNSWICK
BRUNSWICK, MAINE
PAGE 7 OF 10**

Anomaly (¹)	Instrument(s) for Target Reacquisition	Size of Excavation (inches)/ Shape	Depth of Excavation (inches)	MEC/MDAS Items (²)		Non-Munitions Items	
				Number and Description	Weight	Number and Description	Weight/Location of Find
72	Vallon, White's, Schonstedt	Multiple Digs/Circle	2 to 6	--	--	Misc scrap metal (9 pieces)	3 Pounds/northeast of pin flag
73	Vallon, White's, Schonstedt	Multiple Digs	8 to 10	--	--	Miscellaneous scrap metal	4 Pounds/6 feet northwest of pin flag
74	Vallon, White's, Schonstedt	24/Circle	12	--	--	Deeper than 1 foot	Unknown, left in ground
75	Vallon, White's, Schonstedt	12/Circle	2	--	--	Scrap metal (2 pieces)	7 Pounds/7 feet northeast of pin flag
76	Vallon, White's, Schonstedt	24/Circle	11	--	--	Scrap metal (1 piece)	2 Pounds/6 feet north of pin flag
77	Vallon, White's, Schonstedt	12/Circle	12	--	--	Too deep to dig	N/A
78	Vallon, White's, Schonstedt	12/Circle	4	--	--	Scrap metal (2 pieces)	5 Pounds/6 feet north of pin flag
79	Vallon, White's, Schonstedt	12/Circle	3	--	--	Scrap metal (1 piece)	3 Pounds/1.5 feet north of pin flag
80	Vallon, White's, Schonstedt	12/Circle	N/A	--	--	Power line	N/A
81	Vallon, White's, Schonstedt	12/Circle	N/A	--	--	Power line	N/A
82	Vallon, White's, Schonstedt	15/Circle	6 to 4	--	--	Scrap metal (2 pieces)	4.5 Pounds/3.5 feet east of pin flag
83	Vallon, White's, Schonstedt	6/Circle	6	--	--	Scrap metal	2 Pounds/at the pin flag

TABLE 5-1

**DIG SHEET—TARGET EXCAVATION FIELD TRACKING FORM
TARGET ANOMALY LOCATIONS IDENTIFIED DURING THE MEC SI
FORMER MUNITIONS BUNKER WEST AREA
NAVAL AIR STATION BRUNSWICK
BRUNSWICK, MAINE
PAGE 8 OF 10**

Anomaly (1)	Instrument(s) for Target Reacquisition	Size of Excavation (inches)/ Shape	Depth of Excavation (inches)	MEC/MDAS Items (2)		Non-Munitions Items	
				Number and Description	Weight	Number and Description	Weight/Location of Find
84	Vallon, White's, Schonstedt	18/Circle	4 to 8	--	--	Scrap metal (2 pieces)	3 Pounds/3 feet northwest of pin flag
85	Vallon, White's, Schonstedt	24/Circle	12	--	--	To deep to dig	N/A
86	Vallon, White's, Schonstedt	Multiple Digs/Circle	12	--	--	Scrap metal/too deep to dig	2 Pounds/1 at 7 feet east and1 at 6 feet southwest of pin flag
87	Vallon, White's, Schonstedt	Multiple Digs/Circle	8 to11	--	--	Wire/ too deep to dig	3 Ounces/2 feet west of pin flag
88	Vallon, White's, Schonstedt	Multiple Digs/Circle	12	--	--	Spark plug/wire	0.5 Pound/2.5 feet east of pin flag
89	Vallon, White's, Schonstedt	Multiple Digs/Circle	12	--	--	Nail, barbed wire, metal scrap	2 Pounds/5 to7 feet north of pin flag
90	Vallon, White's, Schonstedt	Multiple Digs/Circle	12	--	--	Wire (3 pieces)	0.5 Pound/up to 6 feet from pin flag
91	Vallon, White's, Schonstedt	Multiple Digs/Circle	Up to 10	--	--	Miscellaneous scrap metal	0.5 Pound/1 foot east of pin flag
92	Vallon, White's, Schonstedt	Multiple Digs/Circle	12	--	--	Miscellaneous scrap metal	15 Pounds/6 feet south of pin flag
93	Vallon, White's, Schonstedt	Multiple Digs/Circle	Up to 12	--	--	Miscellaneous scrap metal	5 Pounds/all directions from pin flag
94	Vallon, White's, Schonstedt	Multiple Digs/Circle	Up to 10	--	--	Miscellaneous scrap metal	12 Pounds/2, 4, 6 feet east of pin flag
95	Vallon, White's, Schonstedt	24/Circle	12	--	--	Steel pipe/too deep to dig	Unknown/5 feet east of pin flag

TABLE 5-1

**DIG SHEET—TARGET EXCAVATION FIELD TRACKING FORM
 TARGET ANOMALY LOCATIONS IDENTIFIED DURING THE MEC SI
 FORMER MUNITIONS BUNKER WEST AREA
 NAVAL AIR STATION BRUNSWICK
 BRUNSWICK, MAINE
 PAGE 9 OF 10**

Anomaly (1)	Instrument(s) for Target Reacquisition	Size of Excavation (inches)/ Shape	Depth of Excavation (inches)	MEC/MDAS Items (2)		Non-Munitions Items	
				Number and Description	Weight	Number and Description	Weight/Location of Find
96	Vallon, White's, Schonstedt	12/Circle	12	--	--	No Find ⁽³⁾	N/A
97	Vallon, White's, Schonstedt	12/Circle	5	--	--	PVC pipe with nails	20 Ounces/at the pin flag
98	Vallon, White's, Schonstedt	12/Circle	5	--	--	PVC pipe with nails	20 Ounces/at the pin flag
99	Vallon, White's, Schonstedt	12/Circle	4	--	--	Scrap (2 pieces)	5 Pounds/4 feet north of pin flag
100	Vallon, White's, Schonstedt	12/Circle	6	--	--	Scrap (1 piece)	1.5 Pounds/8 feet east of pin flag
101	Vallon, White's, Schonstedt	12/Circle	10	--	--	Scrap (4 pieces)	0.75 Pound/4 feet east of pin flag
102	Vallon, White's, Schonstedt	12/Circle	12	--	--	Scrap (2 pieces)	4 Pounds/2.5 feet north of pin flag
103	Vallon, White's, Schonstedt	12/Circle	4	--	--	Scrap metal (4 pieces)	4 Pounds/2 to 7 feet west of pin flag
104	Vallon, White's, Schonstedt	24/Circle	10	--	--	Miscellaneous scrap metal	6 Pounds/2 to 5 feet from pin flag
105	Vallon, White's, Schonstedt	12/Circle	12	--	--	To deep to dig	N/A
106	Vallon, White's, Schonstedt	8/Circle	12	--	--	Unknown item below 1-foot	5 Feet south of pin flag
107	Vallon, White's, Schonstedt	8 by 4/Circle	6	--	--	Scrap metal (3 pieces)	2 Pounds/2 feet north of pin flag

TABLE 5-1

**DIG SHEET—TARGET EXCAVATION FIELD TRACKING FORM
 TARGET ANOMALY LOCATIONS IDENTIFIED DURING THE MEC SI
 FORMER MUNITIONS BUNKER WEST AREA
 NAVAL AIR STATION BRUNSWICK
 BRUNSWICK, MAINE
 PAGE 10 OF 10**

Anomaly (1)	Instrument(s) for Target Reacquisition	Size of Excavation (inches)/ Shape	Depth of Excavation (inches)	MEC/MDAS Items (2)		Non-Munitions Items	
				Number and Description	Weight	Number and Description	Weight/Location of Find
108	Vallon, White's, Schonstedt	12 by 4/Circle	12	--	--	4 by 12 in Steel plate	5 Pounds/3 feet southeast of pin flag
109/110	Vallon, White's, Schonstedt	12/Circle	12	--	--	Scrap metal	1 Pound/6 feet east of pin flag
111	Vallon, White's, Schonstedt	N/A	N/A	--	--	No Find(3)	N/A

1 - Note the skip in the numbering system. Anomalies 109 and 110 are co-located (Anomaly 109 was skipped in the SI Report when numbering anomalies).

2 - No MEC found at FMBW Area.

3 - See Table 5-3 for Root Cause Evaluation of "No Finds."

N/A - Not Applicable.

TABLE 5-2

ROOT CAUSE EVALUATION OF "NO FINDS" OF MEC SI TARGET ANOMALIES
 FORMER MUNITIONS BUNKER WEST AREA
 NAVAL AIR STATION BRUNSWICK
 BRUNSWICK, MAINE
 PAGE 1 OF 2

No Find Anomaly Number	Instrument(s) for Target Reacquisition	Size of Excavation (inches)	Actual Depth of Excavation (feet bgs)	Apparent Depth of Target Anomaly Based on MEC SI (feet bgs)	Root Cause Evaluation for No Find
2	Vallon, White's, Schonstedt	12 Circle	1	0.0	Magnetic Rocks ⁽¹⁾ , Noise
3		12 Circle	1	2.0	Apparently Deep ⁽²⁾ , Noise
4		12 Circle	1	3.3	Apparently Deep ⁽²⁾
6		12 Circle	1	3.4	Apparently Deep ⁽²⁾
9		12 Circle	1	3.3	Apparently Deep ⁽²⁾
12		12 Circle	1	4.1	Apparently Deep ⁽²⁾
17		12 Circle	1	3.7	Apparently Deep ⁽²⁾
21		12 Circle	1	2.9	Apparently Deep ⁽²⁾
22		12 Circle	1	3.5	Apparently Deep ⁽²⁾
23		12 Circle	1	2.8	Apparently Deep ⁽²⁾
26		12 Circle	1	2.6	Apparently Deep ⁽²⁾
27		12 Circle	1	0.0	Magnetic Rocks ⁽¹⁾ , Noise
29		12 Circle	1	0.5	Magnetic Rocks ⁽¹⁾ , Noise
30		12 Circle	1	3.2	Apparently Deep ⁽²⁾
32		12 Circle	1	0.4	Close to Electrified Fence ⁽³⁾
35		12 Circle	1	0.1	Close to Electrified Fence ⁽³⁾
38		12 Circle	1	1.3	Apparently Deep ⁽²⁾
42		12 Circle	1	1.0	Close to Electrified Fence ⁽³⁾
43		N/A	N/A	0.1	Bumps, Magnetic Rocks ⁽¹⁾ , Noise
46		N/A	N/A	3.6	Apparently Deep ⁽²⁾
47		N/A	N/A	4.8	Apparently Deep ⁽²⁾
49		N/A	N/A	3.0	Apparently Deep ⁽²⁾
53		12 Circle	1	1.0	Close to Electrified Fence ⁽³⁾
55		12 Circle	1	3.5	Apparently Deep ⁽²⁾
59		12 Circle	1	4.4	Apparently Deep ⁽²⁾
96		12 Circle	1	0.0	Close to Electrified Fence ⁽³⁾
111		N/A	N/A	0.4	Tire Rim at Surface ⁽⁴⁾

Twenty-seven target anomalies established during the 2008 MEC SI at FMBW Area were No Finds during the 2010 TCRA. Potential explanations for the 27 anomalies where No Finds occurred are listed as short entries in the last column of the table above:

TABLE 5-2

ROOT CAUSE EVALUATION OF “NO FINDS” OF MEC SI TARGET ANOMALIES FORMER MUNITIONS BUNKER WEST AREA NAVAL AIR STATION BRUNSWICK BRUNSWICK, MAINE PAGE 2 OF 2

- 1 Bumps, Magnetic Rocks, Noise** – The area where all of the No Find anomalies were encountered, except Anomalies 59 and 111, was very uneven (bumpy) at the surface, with many large ruts, and was also electromagnetically noisy. The area may have been disturbed during construction of the runway and/or electrified fence. Striking large bumps with the EM61 survey instrument can generate data anomalies that could account for Anomaly 43, which could not be reacquired with the field instruments used during the TCRA. Noise may have resulted in false positives at some of the anomalies where No Finds were observed. Magnetic rocks could account for several anomalies (Anomalies 2, 27, and 29) that were reacquired during the TCRA, but upon excavation, no item was found to be responsible for the anomaly. Magnetic rocks were observed and reported at the site surface during the MEC SI.
- 2 Apparently Deep (apparent depth in feet)** – Geophysical data from the MEC SI used to establish the target anomalies were re-examined. The top and bottom coil data from the EM61 survey instrument were analyzed by the Project Geophysicist using the UX-Detect module of Geosoft’s Oasis Montaj software to calculate an apparent depth for each of the MEC SI anomalies of interest listed in the table above. Apparent calculated depths for the MEC SI target anomalies that are greater than the depth of concern of 1 foot bgs are provided in the table. Based on the CSM for FMBW, none of the munitions used during security training are expected to have penetrated the ground surface, and the purpose of the subsurface investigation of the shallow subsurface was to confirm the CSM. TCRA excavations at FMBW were terminated in the field at 1 foot bgs; therefore, anomalies greater than 1 foot bgs identified as potential MEC/MPPEH targets during the MEC SI probably should not have been identified as such.
- 3 Close to Electrified Fence** – Target anomalies judged to be close to the runway electrified fence on the eastern survey boundary may be attributed to interference from the fence (Anomalies 32, 35, 42, and 96).
- 4 Tire Rim at Surface** – It was known at the time of the 2008 MEC SI geophysical survey that a tire rim (ferrous metal) was present at the location of Anomaly 111, and the tire rim was identified on the associated report anomaly figure. However, no items were to be removed from the ground surface during the MEC SI based on the ESS Determination and so the anomaly was identified as a target to confirm the tire rim as the only source of the anomaly when it was removed during the TCRA. Upon removing the tire rim from the anomaly area during the TCRA, no shallow subsurface anomaly was observed.

The TCRA investigation at FMBW area resulted in the reacquisition, excavation, and identification of items responsible for 83 of the 110 anomalies established as targets via a geophysical survey during the 2008 MEC SI, and an additional 78 excavations/item identifications were conducted at 78 real-time anomaly detections based on the TCRA investigation detector-aided survey of meandering transects through nearby wooded areas. In total, 162 excavations, all using hand tools, were conducted; and items responsible for each anomaly were identified, none of which were MEC/MPPEH. Of the 27 No Finds, 21 were at anomalies of apparent depths greater than the planned maximum excavation depth of 1 foot bgs, one was an expected No Find (tire rim), five were close to the runway’s electrified fence, and four were likely a result of bumps on the ground surface, magnetic rocks, or noise.

TABLE 5-3

**TARGET EXCAVATION FIELD TRACKING FORM
MEANDERING PATH TRANSECTS IN WOODED AREA
FORMER MUNITIONS BUNKER WEST AREA
NAVAL AIR STATION BRUNSWICK
BRUNSWICK, MAINE
PAGE 1 OF 6**

Transect Number - Anomaly Number	Instrument for Target Reacquisition	Size of Excavation	Depth of Excavation (inches)	MEC/MPPEH Items		Non-Munitions Items	
				Number and Description	Weight	Number and Description	Weight
T1-1	Schonstedt	Less than 12-inch circle	6	--	--	Scrap Metal	1 pound
T1-2	Schonstedt	Less than 12-inch circle	12	--	--	Scrap Metal	1 pound
T1-3	Schonstedt	Less than 12-inch circle	8	--	--	Scrap Metal	1 pound
T1-4	White's	Less than 12-inch circle	6	--	--	Scrap Metal	0.5 pound
T1-5	White's	Less than 12-inch circle	3	--	--	Scrap Metal	0.5 pound
T2-1	Schonstedt	Less than 12-inch circle	8	--	--	Scrap Metal	1 pound
T2-2	Schonstedt	Less than 12-inch circle	10	--	--	Scrap Metal	2 pounds
T2-3	Schonstedt	Less than 12-inch circle	12	--	--	Scrap Metal	2 pounds
T3-1	Schonstedt	Less than 12-inch circle	8	--	--	Scrap Metal	0.2 pound
T3-2	Schonstedt	Less than 12-inch circle	10	--	--	Scrap Metal	0.6 pound
T3-3	Schonstedt	Less than 12-inch circle	3	--	--	Scrap Metal	0.2 pound
T3-4	Schonstedt	Less than 12-inch circle	4	--	--	Scrap Metal	0.4 pound
T3-5	White's	Less than 12-inch circle	4	--	--	Scrap Metal	0.6 pound

TABLE 5-3

**TARGET EXCAVATION FIELD TRACKING FORM
MEANDERING PATH TRANSECTS IN WOODED AREA
FORMER MUNITIONS BUNKER WEST AREA
NAVAL AIR STATION BRUNSWICK
BRUNSWICK, MAINE
PAGE 2 OF 6**

Transect Number - Anomaly Number	Instrument for Target Reacquisition	Size of Excavation	Depth of Excavation (inches)	MEC/MPPEH Items		Non-Munitions Items	
				Number and Description	Weight	Number and Description	Weight
T4-1	Schonstedt	Less than 12-inch circle	8	--	--	Scrap Metal	1.0 pound
T4-2	Schonstedt	Less than 12-inch circle	10	--	--	Scrap Metal	0.5 pound
T4-3	Schonstedt	Less than 12-inch circle	6	--	--	Scrap Metal	0.5 pound
T4-4	Schonstedt	Less than 12-inch circle	10	--	--	Scrap Metal	1.0 pound
T4-5	Schonstedt	Less than 12-inch circle	12	--	--	Scrap Metal	0.5 pound
T4-6	White's	Less than 12-inch circle	6	--	--	Scrap Metal	0.5 pound
T5-1	Schonstedt	Less than 12-inch circle	10	--	--	Scrap Metal	0.1 pound
T5-2	Schonstedt	Less than 12-inch circle	6	--	--	Scrap Metal	0.5 pound
T5-3	Schonstedt	Less than 12-inch circle	2	--	--	Scrap Metal	0.4 pound
T5-4	White's	Less than 12-inch circle	4	--	--	Scrap Metal	0.2 pound
T5-5	White's	Less than 12-inch circle	5	--	--	Scrap Metal	0.6 pound
T5-6	White's	Less than 12-inch circle	8	--	--	Scrap Metal	0.3 pound
T5-7	White's	Less than 12-inch circle	6	--	--	Scrap Metal	0.4 pound

TABLE 5-3

**TARGET EXCAVATION FIELD TRACKING FORM
MEANDERING PATH TRANSECTS IN WOODED AREA
FORMER MUNITIONS BUNKER WEST AREA
NAVAL AIR STATION BRUNSWICK
BRUNSWICK, MAINE
PAGE 3 OF 6**

Transect Number - Anomaly Number	Instrument for Target Reacquisition	Size of Excavation	Depth of Excavation (inches)	MEC/MPPEH Items		Non-Munitions Items	
				Number and Description	Weight	Number and Description	Weight
T5-8	White's	Less than 12-inch circle	7	--	--	Scrap Metal	0.3 pound
T5-9	White's	Less than 12-inch circle	8	--	--	Scrap Metal	0.2 pound
T6-1	Schonstedt	Less than 12-inch circle	12	--	--	Scrap Metal	0.1 pound
T6-2	Schonstedt	Less than 12-inch circle	8	--	--	Scrap Metal	0.1 pound
T6-3	Schonstedt	Less than 12-inch circle	10	--	--	Scrap Metal	0.1 pound
T6-4	Schonstedt	Less than 12-inch circle	4	--	--	Scrap Metal	0.1 pound
T6-5	Schonstedt	Less than 12-inch circle	3	--	--	Scrap Metal	0.1 pound
T6-6	Schonstedt	Less than 12-inch circle	7	--	--	Scrap Metal	0.1 pound
T6-7	Schonstedt	Less than 12-inch circle	9	--	--	Scrap Metal	0.2 pound
T6-8	Schonstedt	Less than 12-inch circle	12	--	--	Scrap Metal	0.1 pound
T6-9	Schonstedt	Less than 12-inch circle	2	--	--	Scrap Metal	0.1 pound
T6-10	Schonstedt	Less than 12-inch circle	4	--	--	Scrap Metal	0.1 pound
T6-11	Schonstedt	Less than 12-inch circle	7	--	--	Scrap Metal	0.1 pound

TABLE 5-3

**TARGET EXCAVATION FIELD TRACKING FORM
MEANDERING PATH TRANSECTS IN WOODED AREA
FORMER MUNITIONS BUNKER WEST AREA
NAVAL AIR STATION BRUNSWICK
BRUNSWICK, MAINE
PAGE 4 OF 6**

Transect Number - Anomaly Number	Instrument for Target Reacquisition	Size of Excavation	Depth of Excavation (inches)	MEC/MPPEH Items		Non-Munitions Items	
				Number and Description	Weight	Number and Description	Weight
T6-12	Schonstedt	Less than 12- inch circle	12	--	--	Scrap Metal	0.1 pound
T6-13	White's	Less than 12- inch circle	3	--	--	Scrap Metal	0.1 pound
T6-14	White's	Less than 12- inch circle	7	--	--	Scrap Metal	0.1 pound
T6-15	White's	Less than 12- inch circle	10	--	--	Scrap Metal	0.1 pound
T6-16	White's	Less than 12- inch circle	8	--	--	Scrap Metal	0.1 pound
T6-17	White's	Less than 12- inch circle	4	--	--	Scrap Metal	0.1 pound
T6-18	White's	Less than 12- inch circle	2	--	--	Scrap Metal	0.2 pound
T7-1	Schonstedt	Less than 12- inch circle	2	--	--	Scrap Metal	1.5 pounds
T7-2	Schonstedt	Less than 12- inch circle	4	--	--	Scrap Metal	1.0 pound
T7-3	White's	Less than 12- inch circle	6	--	--	Scrap Metal	0.5 pound
T7-4	White's	Less than 12- inch circle	2	--	--	Scrap Metal	1.0 pound
T8-1	Schonstedt	Less than 12- inch circle	8	--	--	Scrap Metal	2.0 pounds
T8-2	Schonstedt	Less than 12- inch circle	12	--	--	Scrap Metal	1.0 pound

TABLE 5-3

**TARGET EXCAVATION FIELD TRACKING FORM
MEANDERING PATH TRANSECTS IN WOODED AREA
FORMER MUNITIONS BUNKER WEST AREA
NAVAL AIR STATION BRUNSWICK
BRUNSWICK, MAINE
PAGE 5 OF 6**

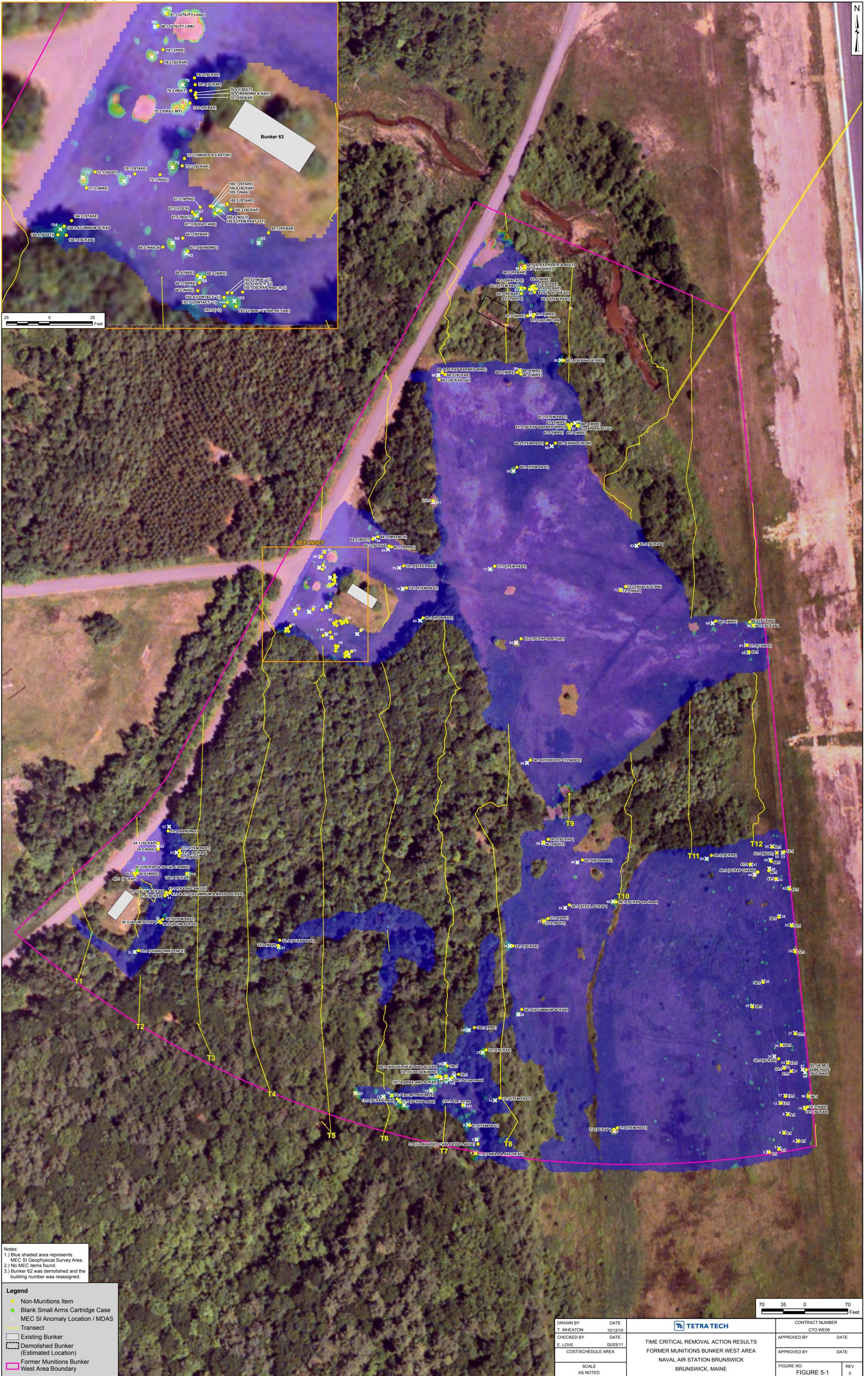
Transect Number - Anomaly Number	Instrument for Target Reacquisition	Size of Excavation	Depth of Excavation (inches)	MEC/MPPEH Items		Non-Munitions Items	
				Number and Description	Weight	Number and Description	Weight
T8-3	White's	Less than 12-inch circle	4	--	--	Scrap Metal	0.5 pound
T8-4	White's	Less than 12-inch circle	6	--	--	Scrap Metal	1.0 pound
T8-5	White's	Less than 12-inch circle	8	--	--	Scrap Metal	0.5 pound
T9-1	Schonstedt	Less than 12-inch circle	3	--	--	Scrap Metal	0.5 pound
T9-2	Schonstedt	Less than 12-inch circle	10	--	--	Scrap Metal	0.5 pound
T9-3	White's	Less than 12-inch circle	3	--	--	Scrap Metal	0.4 pound
T9-4	White's	Less than 12-inch circle	7	--	--	Scrap Metal	0.2 pound
T9-5	White's	Less than 12-inch circle	10	--	--	Scrap Metal	0.4 pound
T10-1	Schonstedt	Less than 12-inch circle	8	--	--	Scrap Metal	0.6 pound
T10-2	Schonstedt	Less than 12-inch circle	10	--	--	Scrap Metal	0.4 pound
T10-3	Schonstedt	Less than 12-inch circle	2	--	--	Scrap Metal	0.8 pound
T10-4	White's	Less than 12-inch circle	10	--	--	Scrap Metal	0.2 pound
T10-5	White's	Less than 12-inch circle	9	--	--	Scrap Metal	0.7 pound

TABLE 5-3

**TARGET EXCAVATION FIELD TRACKING FORM
MEANDERING PATH TRANSECTS IN WOODED AREA
FORMER MUNITIONS BUNKER WEST AREA
NAVAL AIR STATION BRUNSWICK
BRUNSWICK, MAINE
PAGE 6 OF 6**

Transect Number - Anomaly Number	Instrument for Target Reacquisition	Size of Excavation	Depth of Excavation (inches)	MEC/MPPEH Items		Non-Munitions Items	
				Number and Description	Weight	Number and Description	Weight
T10-6	White's	Less than 12-inch circle	4	--	--	Scrap Metal	0.3 pound
T11-1	Schonstedt	Less than 12-inch circle	6	--	--	Scrap Metal	1.0 pound
T11-2	Schonstedt	Less than 12-inch circle	12	--	--	Scrap Metal	0.5 pound
T11-3	Schonstedt	Less than 12-inch circle	6	--	--	Scrap Metal	0.8 pound
T11-4	Schonstedt	Less than 12-inch circle	6	--	--	Scrap Metal	0.2 pound
T11-5	White's	Less than 12-inch circle	4	--	--	Scrap Metal	0.3 pound
T11-6	White's	Less than 12-inch circle	6	--	--	Scrap Metal	0.2 pound
T12-1	Schonstedt	Less than 12-inch circle	8	--	--	Scrap Metal	1.5 pounds
T12-2	White's	Less than 12-inch circle	6	--	--	Scrap Metal	0.6 pound
T12-3	White's	Less than 12-inch circle	4	--	--	Scrap Metal	0.2 pound
T12-4	White's	Less than 12-inch circle	3	--	--	Scrap Metal	0.5 pound
T12-5	White's	Less than 12-inch circle	9	--	--	Scrap Metal	0.2 pound
T13-1	Schonstedt	Less than 12-inch circle	6	--	--	Scrap Metal	1.0 pound

-- No MEC/MPPEH found.



Notes:
 1.) Blue shaded area represents MEC SI Geophysical Survey Area.
 2.) No MEC items found.
 3.) Bunker 62 was demolished and the building number was reassigned.

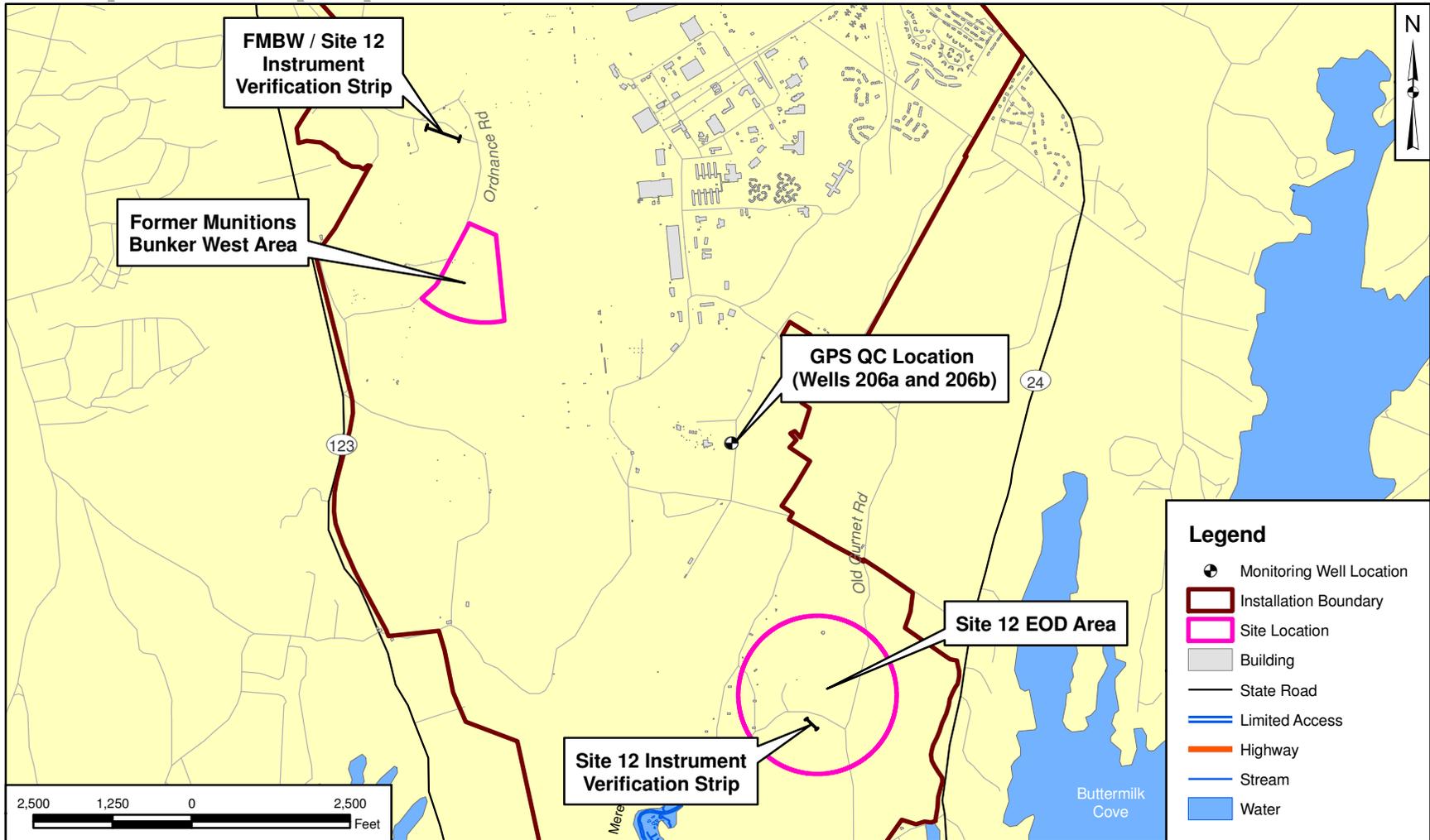
Legend	
●	Non-Munitions Item
●	Blank Small Arms Cartridge Case
x	MEC SI Anomaly Location / MDAS
—	Transect
	Existing Bunker
	Demolished Bunker (Estimated Location)
	Former Munitions Bunker West Area Boundary



DRAWN BY T. WHEATON	DATE 10/12/10
CHECKED BY E. LOVE	DATE 02/03/11
COSTSCHEDULE AREA	
SCALE AS NOTED	

TETRA TECH
 TIME CRITICAL REMOVAL ACTION RESULTS
 FORMER MUNITIONS BUNKER WEST AREA
 NAVAL AIR STATION BRUNSWICK
 BRUNSWICK, MAINE

CONTRACT NUMBER CTO WE09	
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. FIGURE 5-1	REV 0



Legend

- Monitoring Well Location
- ▭ Installation Boundary
- ▭ Site Location
- ▭ Building
- State Road
- Limited Access
- Highway
- Stream
- Water



DRAWN BY	DATE
T. WHEATON	08/26/09
CHECKED BY	DATE
E. LOVE	02/03/11
COST/SCHEDULE AREA	
SCALE AS NOTED	


**INSTRUMENT VERIFICATION STRIP LOCATIONS
AND GPS QC LOCATIONS
NAVAL AIR STATION BRUNSWICK
BRUNSWICK, MAINE**

CONTRACT NUMBER CTO WE09	
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. FIGURE 5-2	REV 0

6.0 RATIONALE FOR VARIATIONS FROM APPROVED ESS

Several FCRs documenting changes to the Work Plan were submitted for the TCRA at Site 12 EOD Area and FMBW Area (FCRs are presented in Appendix A). Although minor corrections to the approved Site 12 ESS were made (addressed in a separate report), no corrections to the approved FMBW Area ESS were necessary.

7.0 AREAS WHERE MUNITIONS RESPONSE ACTIVITIES WERE NOT CONDUCTED

During the 2008 MEC SI, UXO detector-aided surface surveys were conducted at FMBW Area over all accessible areas of the former operational area, including relatively open cleared portions and smaller more vegetated portions of the site where brush cutting was conducted. The area surveyed was approximately 15 to 20 acres. Grids were approximately 100-foot square; lanes approximately 5 feet wide across each grid were surveyed with 100-percent coverage within each grid to the extent possible (a few small stands of trees were present in some of the grids). Geophysical surveys were conducted over the same area as the UXO detector-aided surface surveys during the 2008 MEC SI (the area surveys and SI geophysical results are presented on Figure 5-1).

At FMBW Area, the TCRA included meandering-path detector-aided surface surveys within the FMBW wooded area, with paths at approximately 100-foot spacing (Figure 5-1 presents the area surveyed along with the results). The only areas where munitions response activities were not conducted at FMBW Area were those wooded areas between the 100-foot-spaced meandering-path survey transects; of note, munitions operations are not believed to have occurred within the wooded area and the activity was conducted as a conservative measure.

8.0 MEC AND MPPEH FOUND AND/OR RECOVERED

No MEC or MPPEH determined to be MDEH were found at FMBW Area. One MDAS item, a .30 caliber expended blank small arms cartridge case was found at one of the targeted subsurface anomaly locations (Figure 5-1). The results of the anomaly investigations of the targeted subsurface anomalies identified from the MEC SI and those found during the meandering-path detector-aided surface survey of the wooded areas are presented in Tables 5-1 and 5-3.

Scrap metal (non-munitions related) removed from the site was placed in an area designated by NAS Brunswick; disposal has been deferred.

9.0 PROJECT QC AND QA REPORTS

The Work Plan was developed to identify and implement quality requirements to ensure that overall project activities were accomplished using an acceptable level of internal controls and review procedures. The intent of such controls was to eliminate conflicts, errors, and omissions and to ensure the technical accuracy of the deliverables.

The quality requirements associated with field activities are defined in Table 9-1. These requirements applied to all field activities that affected the quality of work and work products. Appendix B contains copies of QC/safety logs.

All field activities affecting QC were performed in accordance with documented procedures, instructions, or drawings identified in the Work Plan, or applicable Data Item Descriptions (DID). During all field activities, Tetra Tech used the following types of documentation:

- QC Daily Reports
- QC Summary Reports
- Field Logbooks
- Field Activity Daily Safety Logs
- Equipment Inspection Checklists
- Preparatory Phase Inspection Reports
- Initial Phase Inspection Reports
- Follow-Up Inspection/Surveillance Reports
- Daily Tailgate Safety Briefings

The SUXOS maintained a field logbook of all inspection and testing activities used in preparing the QC Daily Reports. All QC Reports generated during this effort are being submitted with this Report. Reports were not prepared for days on which no work was performed. All reports, logs, and checklists are presented in Appendices A and B.

Field performance was evaluated to ensure that the quality standards and objectives of the Work Plan were met. The UXO Program Manager conducted daily audits of the Field Activity Daily Logs and weekly audits of the QC/safety reports. Additional audits were conducted periodically. The procedures for auditing activities were identified prior to implementation of the audits. The field teams involved with site work were responsible for reporting any suspected technical non-conformances or deficiencies to the UXO Program Manager and/or Task Manager. The UXO Program Manager was responsible for

evaluation of the situation and taking action, if any was required, after notification of the Task Manager. No suspected technical non-conformances or deficiencies were reported for activities conducted at FMBW Area.

Audits were conducted and corrective actions were implemented, as appropriate, when non-conformances or deficiencies were identified. NOSSA audits were conducted at FMBW Area on August 10 and 11, 2010, and NAVEODTECHDIV conducted a third-party QA audit from August 10 through August 12, 2010; comments were minor and were addressed with changes in the field and with FCR forms (presented in Appendix A).

The field teams involved with site work were responsible for reporting any suspected technical nonconformance or deficiencies to the UXO Program Manager and/or the Tetra Tech Task Manager. The UXO Program Manager was responsible for evaluation of all non-conformances or deficiencies issues. The UXO Program Manager was then responsible for implementing corrective action, and initiating following up with a compliance review, if any was required, after notification of the Tetra Tech Task Manager. Records were kept of all auditing tasks and findings and copies were provided to the Navy point of contact (POC). No suspected technical nonconformance or deficiencies were reported for activities conducted at FMBW Area.

TABLE 9-1

**QUALITY REQUIREMENTS FOR UXO SUPPORT TO THE NAVY
FORMER MUNITIONS BUNKER WEST
NAVAL AIR STATION BRUNSWICK
BRUNSWICK, MAINE
PAGE 1 OF 2**

Objective	Activity	Activity Quality Requirement	Quality Control Verification
Prepare Site	Mobilization and Site Preparation	Mobilize equipment and personnel, and prepare site as described in Work Plan.	<ul style="list-style-type: none"> • Daily Site Health and Safety Meeting Report • Field Logbooks
Site Work	Vegetation Clearance	<p>UXO Technicians, supervised by UXO Team Leader, performed vegetation clearance and removal to allow access to areas for detector-aided surveys and anomaly reacquisition.</p> <p>Fail criteria were any area with vegetation smaller than 2 inches in diameter and taller than 12 inches.</p>	<ul style="list-style-type: none"> • QC Daily Report • Daily Site Health and Safety Meeting Report • Daily Equipment Checklist • QA Audit Checklist and Audit Form • Health and Safety Compliance Inspection • Field Logbooks • QC vegetation clearance operations
Site Work	Surface/Subsurface UXO Clearance ⁽¹⁾	<p>UXO Technicians, supervised by the SUXOS, removed MEC (if found) from the surface within the targeted FMBW Area, subsurface anomalies identified during MEC SI in the FMBW Area, surface MEC within wooded FMBW Area, and subsurface anomalies within wooded FMBW Area.</p> <p>QC checks were performed to ensure that UXO Team removed all surface and subsurface MEC (if found).</p> <p>Fail criteria were any MEC discovered in cleared areas.</p>	<ul style="list-style-type: none"> • QC Daily Report • Daily Site Health and Safety Meeting Report • Daily Equipment Checklist • QA Audit Checklist and Audit Form • Health and Safety Compliance Inspection • Field Logbooks • QC 10% of target anomalies in FMBW Area. • QC 10% of transect meandering path in wooded area of FMBW Area
Site Work	UXO Escort/Avoidance Operations	<p>UXO Technician conducted avoidance while conducting UXO escort duties.</p> <p>QC checks were performed to ensure that no anomalies were moved or disturbed during this phase of project.</p> <p>Fail criteria were any anomaly moved or disturbed.</p>	<ul style="list-style-type: none"> • QC Daily Report • Daily Site Health and Safety Meeting Report • Daily Equipment Checklist • QA Audit Checklist and Audit Form • Health and Safety Compliance Inspection • Field Logbooks • QC UXO Escort duties

TABLE 9-1

**QUALITY REQUIREMENTS FOR UXO SUPPORT TO THE NAVY
FORMER MUNITIONS BUNKER WEST
NAVAL AIR STATION BRUNSWICK
BRUNSWICK, MAINE
PAGE 2 OF 2**

Objective	Activity	Activity Quality Requirement	Quality Control Verification
Site Work	UXO Surface Survey Operations	<p>UXO Technicians, supervised by the UXO Team Leader, completed grid/target inspection to collect data on the type and location of MEC (if found).</p> <p>QC checks were performed to ensure that potential MEC had been located and identified and that data were collected and reported.</p> <p>Fail criteria were any MEC discovered in a grid/target that was not reported in data logs.</p>	<ul style="list-style-type: none"> • QC Daily Report • Daily Site Health and Safety Meeting Report • Daily Equipment Checklist • QA Audit Checklist and Audit Form • Health and Safety Compliance Inspection • Field Logbooks • QC 10% of targets
Site Work	Demobilization	Demobilize equipment and personnel according to schedule.	<ul style="list-style-type: none"> • Daily Site Health and Safety Meeting Report • Health and Safety Compliance Inspection • Field Logbooks

1 – Activity not needed since no MEC/MPPEH was encountered.

10.0 LAND USE CONTROLS IMPLEMENTED

FMBW Area currently has restricted access. FMBW Area is located within the NAS Brunswick perimeter fence. Access via a security checkpoint is required for this site. NAS Brunswick security personnel monitor all access to this area, and frequent motor vehicle patrols are conducted as part of the access control program. The FMBW Area is a buffer area for the runway and as such falls under the access control program. There are no other land use controls planned for the site at this time. However, NAS Brunswick is in the closure process and will be transferred outside Navy control after response actions are completed. Potential land use controls for this area will be evaluated after completion of the Finding of Suitability to Transfer (FOST).

11.0 PROVISIONS FOR LONG-TERM MANAGEMENT

No MEC was identified during the FMBW Area investigation consisting of an intrusive investigation of subsurface magnetic anomalies located throughout the former operational area of the site and a meandering UXO detector-aided surface survey in the wooded area around the site that also included intrusive investigation of subsurface magnetic anomalies.

For MEC, a complete or potentially complete exposure pathway must include the following components: (1) a source (e.g., locations where MEC are expected to be found); (2) access (e.g., controlled or uncontrolled access, items on the surface or within the subsurface); (3) an activity (e.g., non-intrusive grounds maintenance or intrusive construction); and (4) receptors (e.g., civilian personnel). If the point of exposure is not at the same location as the source, the pathway may also include a release mechanism (e.g., erosion) and transport medium (e.g., surface water). Additionally, the receptor must have access to the source and must engage in some activity that results in contact with individual MEC items within the source area.

Figure 11-1 provides a graphical representation of the current understanding of the exposure pathways through which site receptors could come into contact with or be impacted by MEC, if present. No MEC were identified during the detector-aided surface survey and no MEC were observed during the intrusive investigation. The TCRA investigation confirms the absence of MEC at FMBW Area and therefore a source for MEC (surface or subsurface) is not present, resulting in no exposure pathway for MEC at the FMBW Area. Table 11-1 presents the tabular CSM.

Procedures for long-term management, including maintenance, monitoring, record-keeping, etc., have not yet been developed and are not necessary for MEC. Potential long term management issues and land use controls for this area will be evaluated after completion of the FOST.

TABLE 11-1

**CONCEPTUAL SITE MODEL INFORMATION PROFILE
FORMER MUNITIONS BUNKER WEST
NAVAL AIR STATION BRUNSWICK
BRUNSWICK, MAINE
PAGE 1 OF 3**

Profile Type	Information Needs	Preliminary Assessment Findings
Range/Site Profile	Installation Name	Naval Air Station Brunswick
	Installation Location	Cumberland County, Maine
	Range/Site Name	Former Munitions Bunker West Area
	Range/Site Location	Located west of the runways in the northwestern portion of the installation.
	Range/Site History	From the 1980s to 2000, the range area was used for training of installation security personnel.
	Range/Site Area and Layout	Approximately 29 acres.
	Range/Site Structures	The site itself had no structures (e.g., firing points, targets); however, the site contains two abandoned magazines (#63 and #64) dating back to the 1940s. A small control tower is located approximately one-half mile northeast of the site.
	Range/Site Boundaries	N: Undeveloped land S: Undeveloped land E: Outboard Runway W: Perimeter road (Ordnance Road)
	Range/Site Security	The site is within the boundaries of the NAS Brunswick and is surrounded by a perimeter fence. Access via a manned security checkpoint is required for this site. NAS Brunswick security personnel monitor all access to this area and frequent motor vehicle patrols are conducted.
Munitions/Release Profile	Munitions Types	According to the PA, the following munitions were used at FMBW: -Grenades, Hand Smoke Red M18 with fuze M201A1 -Grenades, Hand Smoke Yellow M18 with fuze M201A1 -Signal Illumination, Ground Green Star Clusters, hand held M125A1 -Flares, Surface Trip, M49A1 -Simulator Noise Cartridge Assault Rock Trainers, -MK 103 Mod 0 -Cartridges 7.62 Blank M82 Linked -Cartridges 5.56 Blank M20 Linked and non-linked
	Maximum Probability Penetration Depth	None of the munitions used during security training are expected to have penetrated the ground surface.

TABLE 11-1

**CONCEPTUAL SITE MODEL INFORMATION PROFILE
FORMER MUNITIONS BUNKER WEST
NAVAL AIR STATION BRUNSWICK
BRUNSWICK, MAINE
PAGE 2 OF 3**

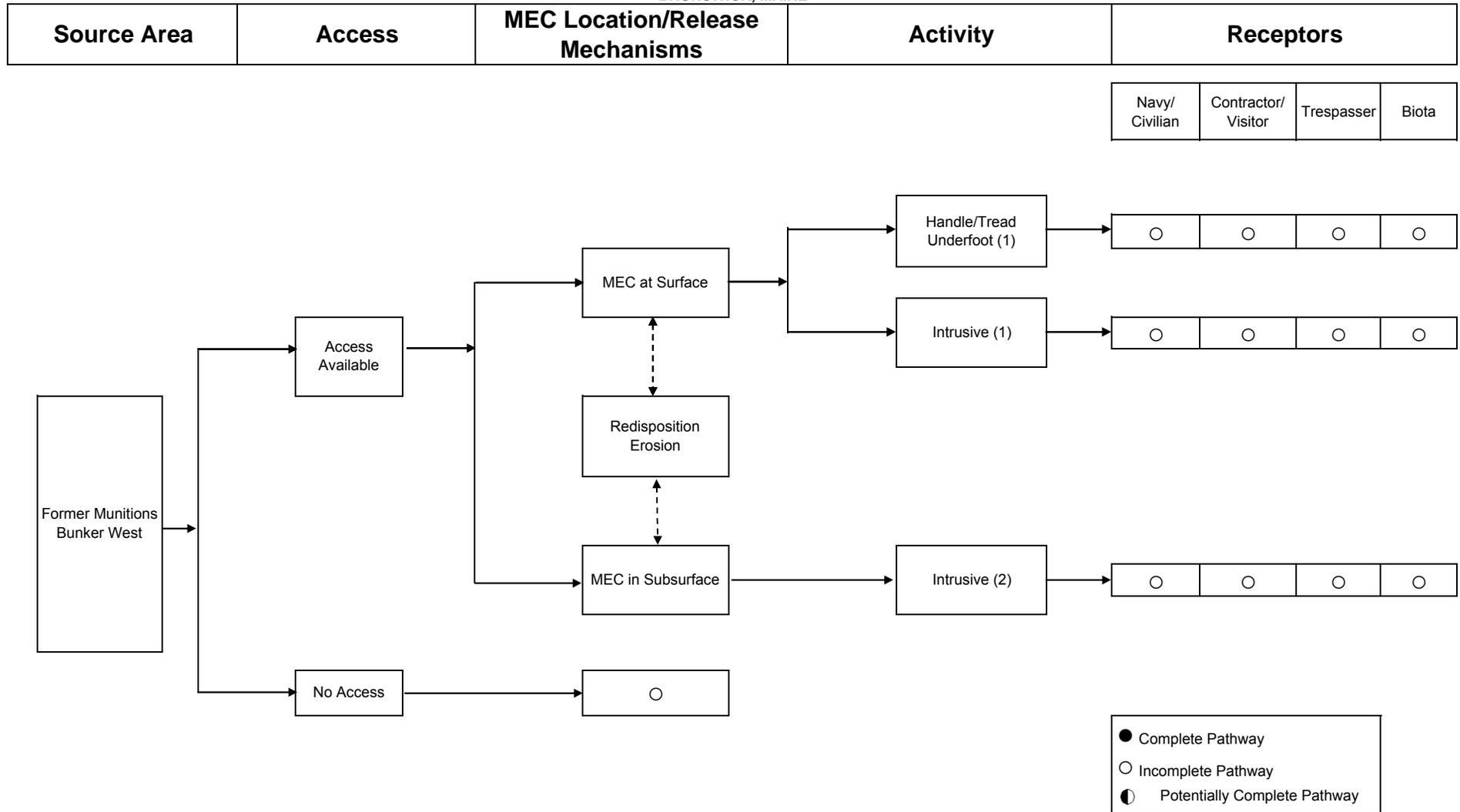
Profile Type	Information Needs	Preliminary Assessment Findings
	MEC Density	No MEC were observed during the PA or SI visual surveys, and no MEC were detected during the MEC SI or TCRA investigation. The potential for MEC is low due in part to the types of training conducted at the range and the undocumented procedure of clearing the area of debris after training activities. However, many (110) small target subsurface anomalies were identified during the MEC SI geophysical surveys, although there were no large or high amplitude anomalies that could not be explained by surficial non-munitions metallic debris. Naturally occurring magnetic rock in the area may be responsible for the numerous low-level anomalies. No MEC items were identified at FMBW Area during the TCRA excavation, 162 anomalies were investigated in the cleared and wooded areas.
	MEC Scrap/Fragments	No MEC scrap/fragments were found during the PA, SI, or TCRA site visits and investigations. One .30 caliber expended blank small arms cartridge case (MDAS) was found during the TCRA at a targeted subsurface anomaly location.
	Associated Munitions Constituents	Constituents associated with the munitions used at the site could include phosphorus from the smoke-generating items, metals, perchlorate, and explosive residuals.
	Migration Routes/Release Mechanisms	There are two primary routes for the migration of potential MC: surface runoff to surface water bodies or infiltration to groundwater.
Physical Profile (see Section 6.3)	Climate	Continental climate with three well defined seasons. Highest temperatures occur in July (79° F or higher), and coldest temperatures occur in January (21° F or lower).
	Topography	Gently rolling to flat.
	Geology	Site-specific geology is unknown (boring logs not available). However, the NAS Brunswick is characterized by unconsolidated sediments and Paleozoic bedrock.
	Soil	Suffield-Buxton-Hollis Association. Deep to shallow, moderately well-drained to somewhat poorly drained soils with low permeability.
	Hydrogeology	Site-specific hydrogeology for the area is unknown (no wells within the area of concern).
	Hydrology	Surface water drains to Mere Brook watershed.
	Vegetation	The site contains both forested and marsh areas. Current-day newer growth vegetation may or may not be reflective of historical conditions.

TABLE 11-1

**CONCEPTUAL SITE MODEL INFORMATION PROFILE
FORMER MUNITIONS BUNKER WEST
NAVAL AIR STATION BRUNSWICK
BRUNSWICK, MAINE
PAGE 3 OF 3**

Profile Type	Information Needs	Preliminary Assessment Findings
Land Use and Exposure Profile	Current Land Use	The area is mostly undeveloped because it serves as a buffer area for the runways.
	Current Human Receptors	Current human receptors include Navy and civilian personnel, contractors, visitors, and trespassers.
	Current Activities (frequency, nature of activity)	Navy personnel and authorized visitors can access the site, but it is not likely. The area is not used and most areas are inaccessible due to dense vegetation
	Potential Future Land Use	According to the BRAC PMO office, potential future land use is as College Use Conservation District (Education/Natural Area) and Aviation Related (Aircraft Operations).
	Potential Future Human Receptors	According to the BRAC PMO office, potential future human receptors are civilian airport personnel, visitors, and trespassers.
	Potential Future Land Use-Related Activities:	According to the BRAC PMO office, potential future land use-related activities will be continued use as a buffer to the airport runways as well as an educational/natural area.
	Zoning/Land Use Restrictions	Use of the area is restricted based on its proximity to the active runways.
	Demographics/Zoning	Cumberland County population density is approximately 50,000 persons per square mile.
	Beneficial Resources	Groundwater from the deep aquifer is the source of the municipal water supply.
Ecological Profile	Habitat Type	Grassland and woodland area.
	Degree of Disturbance	Minimal to none.
	Ecological Receptors and Species of Special Concern	Potential ecological receptors include indigenous species. No species of special concern are known to be present at the site.
	Relationship of MEC/MC Sources to Habitat and Potential Receptors	Based on the SI MEC and TCRA investigations there does not appear to be MEC on site. Current and future site receptors may be exposed to surface soil contamination if present. Security personnel routinely patrol the area; however, most of the patrols are vehicle patrols along perimeter road thus there is minimal activity within the former training area.

FIGURE 11-1
MEC EXPOSURE PATHWAY ANALYSIS
FORMER MUNITIONS BUNKER WEST
NAVAL AIR STATION BRUNSWICK
BRUNSWICK, MAINE



12.0 REQUESTS TO CANCEL EXCLUSION ZONE (EZ) OR OTHER APPROVALS

Request NOSSA cancel all exclusion zones or site approvals established in the approved ESS. All necessary work required from the approved ESS has been completed and based on this investigation, no MEC items have been found or are likely to be found in the future at this site.

13.0 MAPS

13.1 CURRENT, DETERMINED, OR ANTICIPATED FUTURE USE

Figure 2-1 depicts NAS Brunswick and the FMBW Site, which is designated for closure and is undergoing property transfer in accordance with the 2005 recommendations of the Base Realignment and Closure (BRAC) commission, with an operational closure date of September 15, 2011. Figure 2-2 depicts the FMBW Area, so named because munitions magazines were formerly located at the site (Bunker 62 (demolished and magazine number reassigned), 63, and 64); these magazines are not related to the current MEC concerns at the site. Currently, FMBW Area is undeveloped and unused with the exception of Ordnance Road, which forms the western boundary of the site. Planned future land use for FMBW Area includes College Use Conservation District (Education/ Natural Area) and Aviation Related (Aircraft Operations).

13.2 RESPONSE ACTIONS AREAS AND CLEARANCE DEPTH

Figure 5-1 depicts the FMBW Area TCRA results that consist of meandering path UXO detector-aided surface survey in the wooded portions of the site as well as manual target excavation and investigation to a maximum depth of 1 foot bgs.

13.3 AREAS WHERE RESPONSE ACTIONS WERE NOT PERFORMED

Response actions were conducted at the FMBW as shown on Figure 5-1. Areas between the meandering paths were not investigated.

13.4 MC SAMPLING LOCATIONS

Sampling for MC was not conducted as part of the response action.

13.5 RESIDUAL MUNITIONS HAZARD AND CHEMICAL RISK

The purpose of the TCRA at FMBW Area was to confirm the absence of MEC in this area. No MEC/MPPEH or even munitions debris except for a .30 caliber expended blank small arms cartridge case was found at one of the targeted subsurface anomaly locations during the TCRA conducted at FMBW area. Therefore, a residual hazard or risk from MEC at FMBW Area does not appear to be present. Investigations were conducted at the FMBW as shown on Figure 5-1.

14.0 GEOPHYSICAL MAPPING INFORMATION

No subsurface geophysical mapping was conducted during the TCRA. However, an MEC SI was previously conducted at FMBW Area in 2008, which consisted of detector-aided surface and subsurface geophysical surveys. The results of the 2008 SI subsurface geophysical survey are provided on Figure 5-1.

15.0 DIG SHEETS

A list of all targets is included in Appendix A; and a summary of the results of each manual excavation at FMBW is included in Table 5-1.

16.0 COLOR PHOTOGRAPHS OF ACTIVITIES AND RECOVERED MEC

Photographs of site activities are included in Appendix C. No MEC/MPPEH were recovered at the FMBW site.

17.0 VIDEOTAPE OF ACTIVITES AND RECOVERED MEC

No videotapes of activities were prepared for the TCRA.

18.0 DESCRIPTION AND RESULTS OF LABORATORY ANALYSES OF MC

No laboratory analysis was conducted during the TCRA of the FMBW.

19.0 ARCHEOLOGICAL SITES/ENVIRONMENTALLY SENSITIVE AREA ENCOUNTERED

No sensitive areas were encountered during the TCRA at the FMBW.

20.0 REFERENCES

Department of Defense (DoD), 2001. Management Guidance for the Defense Environmental Restoration Program (DERP). September.

DoD, 2008. DoD Ammunition and Explosive Safety Standards DoD 6055.9-STD. February.

Department of Defense Explosives Safety Board (DDESB), 2004. Minimum Qualifications for Unexploded Ordnance (UXO) Technicians and Personnel, TP 18. December.

Department of Navy (Navy), 2003. Explosives Safety Review, Oversight, and Verification of Response Actions Involving Military Munitions, OPNAVINST 8020.15. October.

Navy, 2005. Navy Munitions Response Program (MRP) Guidance. June 30.

Navy, 2009. Explosives Safety Review, Oversight, and Verification of Munitions Response, NOSSA Instruction 8020.15B. January.

Director of Commander, Naval Sea Systems Command, Ammunition and Explosives Safety Ashore, NAVSEA OP 5 VOLUME 1, 15 January 2001, W/Change 7 - 1 June 2005.

Malcolm Pirnie, 2006. Preliminary Assessment, Naval Air Station Brunswick, Maine. February.

Tetra Tech, 2009a. Site Inspection Report for Munitions and Explosives of Concern Areas, Site 12 EOD Area, Former Munitions Bunker West Area, Quarry. Naval Air Station Brunswick, Brunswick, Maine. Contract Task Order. 0069. June.

Tetra Tech, 2009b. Time Critical Munitions and Explosives of Concern Removal Action Work Plan Site 12 Explosive Ordnance Disposal Area and the Former Munitions Bunker West Area. Naval Air Station Brunswick, Brunswick, Maine. Contract Task Order. WE09. September.

Tetra Tech, 2009c. Health and Safety Plan/Accident Prevention Plan, Time Critical Munitions and Explosives of Concern Removal Action Work Plan Site 12 Explosive Ordnance Disposal Area and the Former Munitions Bunker West Area. Naval Air Station Brunswick, Brunswick, Maine.

Tetra Tech, 2010. Explosive Safety Submission for Munitions and Explosives of Concern Investigation/Removal Action at Former Munitions Bunker West Area. Naval Air Station Brunswick, Brunswick, Maine. Contract Task Order 0069. May.

United States Army Corps of Engineers (USACE), 2004. Munitions and Explosives of Concern (MEC) Support During Hazardous, Toxic, and Radioactive Waste (HTRW) and Construction Activities, EP 75-1-2. August.

USACE, 2007. Engineering and Design – Ordnance and Explosives Response EM 1110-1-4009. June.

APPENDIX A

FIELD ACTIVITY LOGS

- A.1 WORK PLAN SIGNATURE FORM**
- A.2 DAILY ACTIVITY LOGS**
- A.3 VISITOR LOGS**
- A.4 FIELD CHANGE REQUEST FORMS**
- A.5 DIG SAFE PERMITS - UTILITY CLEARANCE**
- A.6 DIG SHEET**

A.1 WORK PLAN SIGNATURE FORM

A.2 DAILY ACTIVITY LOGS



TETRA TECH NUS, INC.

MEC FIELD ACTIVITY DAILY LOG

DATE	8/2/10
SHEET 1	OF 2

FACILITY NAME: NAS Brunswick SITE(s): Site 12 and FMBW	PROJECT NO: 112G02063 TASK CODES: 0000.1403
FIELD ACTIVITY SUBJECT: Time Critical MEC Removal Action	
SUMMARY OF DAILY PROGRESS: LIST TRANSECTS AND/OR GRIDS and INSTRUMENTS USED Mobilization/Set Preparation: FMBW UXO Escort/Avoidance: N/A Site-Specific Training/IVS Certification: N/A Detector Aided Surface Surveys: FMBW - began setup of transects Surface/Subsurface Clearance: Site 12 - Trench #11 was investigated today, This trench was 21 feet long x 6 feet wide x 4 feet deep 350 Lbs of NON-OE scrap was taken out (mainly culvert pipe) no MEC/MPPEH was encountered Data Processing and Interpretation: N/A Disposal of MEC: N/A Demobilization: N/A	
DOCUMENTATION OF MEC/MPPEH ENCOUNTERED: N/A LIST TRANSECT AND/OR GRID, PHOTO ID, AND DESCRIPTION	



TETRA TECH NUS, INC.

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

All personnel have returned from other job sites and are ready to resume our Site 12 trenching efforts.

Site 12 - Two personnel were dispatched with GPS and tape measures to extend Grids G-1, K-2, L-2, and L-3, as per instructions of the UXO Manager; with these grids extended they will be full 100'x100' grids.

13:00 FMBW - Two personnel were dispatched to the FMBW Site with maps, GPS Units, flags, Schonstadt's and a White. The objective is to locate the start and stop of each transect indicated on our maps, then to select 25 random locations identified to be cleared, find that location, put a numbered flag at that location and using each type of metal detector see if they can locate the anomaly. No digging will be done until the rest of the crew arrives to start that phase of the project.

Site 12 - Trench #11 complete, no MEC/MPPEH found at this location.

16:30 Terminated daily operations to perform maintenance of tools and equipment

17:00 Secured for the day

IMPORTANT PHONE CALLS/DECISIONS: None

FIELD TASK MODIFICATIONS: N/A

WEATHER CONDITIONS: Sun and Clouds mixed, High 74F, Winds SE @ 5-10mph

VISITORS ON SITE: N/A

PERSONNEL ON SITE: Syd Rodgers, Glen Childers, Frank Loney, Norm Piper, Alfred Smith, Jake Clements, Frank Montes, Mark Soha

SIGNATURE:

DATE: 8/2/10



TETRA TECH NUS, INC.

MEC FIELD ACTIVITY DAILY LOG

DATE	8/3/10
SHEET	1 OF 2

FACILITY NAME: NAS Brunswick SITE(s): Site 12 and FMBW	PROJECT NO: 112G02063 TASK CODES: 0000.1403 and 0000.1402
FIELD ACTIVITY SUBJECT: Time Critical MEC Removal Action	
SUMMARY OF DAILY PROGRESS: LIST TRANSECTS AND/OR GRIDS and INSTRUMENTS USED: Mobilization/Set Preparation: FMBW Establish Transects UXO Escort/Avoidance: N/A Site-Specific Training/IVS Certification: N/A Detector Aided Surface Surveys: FMBW, locating anomaly points only at this time, not digging them. Surface/Subsurface Clearance: Site 12, Trench #12 was started and completed today, 21 feet long X 3 feet wide X 4 feet deep. 425 Lbs of NON-OE scrap was recovered, (mostly old culvert pipes), No MEC/MPPEH was found at this location. Trenching operations are complete at this time. Add on Grids L3, L2, and K2 was swept today and no MEC/MPPEH was found. Data Processing and Interpretation: N/A Disposal of MEC: N/A Demobilization: N/A	
DOCUMENTATION OF MEC/MPPEH ENCOUNTERED: N/A LIST TRANSECT AND/OR GRID, PHOTO ID, AND DESCRIPTION	



TETRA TECH NUS, INC.

DATE	8/3/10
SHEET 2	OF 2

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

Resumed trenching operations at Site 12, we attacked Trench #12 today the last trench at this Site, at the same time I instructed my GPS Team to return to FMBW Site to finish collecting data on the Transects for that area. With that finished I dispatched personnel to locate more anomaly locations, put flags at these locations, and mag with the White and the Schonstedt to see if they could locate a given anomaly target.

Tomorrow Site 12 should be finished only one more Grid to complete, G1, the rest of the add on Grids were completed today. No MEC/MPPEH was found.

Trenches 7, 8, 11, 12 Lay down areas were re swept to ensure no MEC/MPPEH was uncovered during back fill operations.

Grass seed was broadcast over all trenches and the surrounding areas.

The Tractor with brush hog was transported to FMBW to cut selected areas where the grass was so tall we couldn't see the flags placed at anomaly locations.

IMPORTANT PHONE CALLS/DECISIONS: None

FIELD TASK MODIFICATIONS: N/A

WEATHER CONDITIONS: Few showers in AM, Isolated thunderstorms in PM, High 77F, Winds S @ 5-10mph, Rain 30%

VISITORS ON SITE: N/A

PERSONNEL ON SITE: Syd Rodgers, Glen Childers, Frank Loney, Norm Piper, Alfred Smith, Jake Clements, Frank Montes, Mark Soha

SIGNATURE:

DATE: 8/3/10



TETRA TECH NUS, INC.

MEC FIELD ACTIVITY DAILY LOG

DATE	8/4/10
SHEET 1	OF 2

FACILITY NAME: NAS Brunswick SITE(s): Site 12 and FMBW	PROJECT NO: 112G02063 TASK CODES: 0000.1403, 0000.1402
FIELD ACTIVITY SUBJECT: Time Critical MEC Removal Action	
SUMMARY OF DAILY PROGRESS: LIST TRANSECTS AND/OR GRIDS and INSTRUMENTS USED: Mobilization/Site Preparation: N/A UXO Escort/Avoidance: N/A Site-Specific Training/IVS Certification: N/A Detector Aided Surface Surveys: N/A Surface/Subsurface Clearance: At Site 12 Grid G-1 was started and completed. MEC/MPPEH was encountered, (See Documentation of MEC/MPPEH encountered below) Grids that passed QC: L3, L2, K2 and G1 (Site 12) Data Processing and Interpretation: N/A Disposal of MEC: N/A Demobilization: N/A	
DOCUMENTATION OF MEC/MPPEH ENCOUNTERED: At Site 12, MEC/MPPEH was encountered in Grid G-1, S12-G1-38, identified the item as a Gator Mine, the item has inert stickers on it and is painted blue, was unable to confirm item completely inert and will treat the item on 8/5/10 LIST TRANSECT AND/OR GRID, PHOTO ID, AND DESCRIPTION	



TETRA TECH NUS, INC.

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

Started and finished last Grid at Site 12, Grid G-1, MEC/MPPEH was encountered, will treat on 8/5/10

Team moved to FMBW Site to start transects. Transects investigated with the Schonstedt: 1, 2, 3, 4, 5, 6, 8, 9, 10, 12, and 13

(For a list of digs see attached sheet)

Transects investigated with the White: 1, 2 (For list a of digs see attached sheet)

16:00 Secured operations to return tools to Site 12 storage bunker.

17:00 Departed for the day

IMPORTANT PHONE CALLS/DECISIONS: None

FIELD TASK MODIFICATIONS: N/A

WEATHER CONDITIONS: Partly cloudy, Stray thunderstorm possible in PM, High 85F, Winds SW @ 15-25mph

VISITORS ON SITE: N/A

PERSONNEL ON SITE: Syd Rodgers, Glen Childers, Frank Loney, Norm Piper, Alfred Smith, Jake Clements, Frank Montes, Mark Soha

SIGNATURE:

DATE: 8/4/10



TETRA TECH NUS, INC.

MEC FIELD ACTIVITY DAILY LOG

DATE	8/5/10
SHEET 1	OF 2

FACILITY NAME: NAS Brunswick SITE(s): FMBW and Site 12	PROJECT NO: 112G02063 TASK CODES: 0000.1402, 0000.1403
-------------------------------------------------------------------------	-------------------------------------------------------------------------

FIELD ACTIVITY SUBJECT: Time Critical MEC Removal Action

SUMMARY OF DAILY PROGRESS:
LIST TRANSECTS AND/OR GRIDS and INSTRUMENTS USED:
Mobilization/Set Preparation: N/A
UXO Escort/Avoidance: N/A
Site-Specific Training/IVS Certification: N/A
Detector Aided Surface Surveys: Transects 4, 5, 6, 12, 13
Surface/Subsurface Clearance: Transects 4, 5, 6, 12, 13 were completed today at FMBW
Transects passing QC: 1, 2
Data Processing and Interpretation: N/A
Disposal of MEC: Gator Mine that was found in Gird G-1 at Site 12 was successfully vented today, using a donor shaped charge.
Demobilization: N/A

DOCUMENTATION OF MEC/MPPEH ENCOUNTERED: No MEC/MPPEH, encountered today at FMBW
LIST TRANSECT AND/OR GRID, PHOTO ID, AND DESCRIPTION



TETRA TECH NUS, INC.

DATE	8/5/10
SHEET 2	OF 2

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

Returned to FMBW to continue sweeping transects.

Demo today at Site 12, successfully vented Gator Mine found in Grid G-1, on 8/4/10.

Porta - John relocated from Site 12 to FMBW.

Transferred "Bravo Flag" and road blocks from Site 12 to FMBW.

16:00 Terminated daily operations to return tools and equipment to storage locker for overnight security.

17:00 secured for the day

IMPORTANT PHONE CALLS/DECISIONS: None

FIELD TASK MODIFICATIONS: N/A

WEATHER CONDITIONS: Variable clouds with scattered showers and thunderstorms in PM, Some severe, High 80F, Winds SSW @5-10mph, Rain 40%

VISITORS ON SITE: N/A

PERSONNEL ON SITE: Syd Rodgers, Glen Childers, Frank Loney, Norm Piper, Alfred Smith, Jake Clements, Frank Montes, Mark Soha

SIGNATURE:

DATE: 8/5/10



TETRA TECH NUS, INC.

MEC FIELD ACTIVITY DAILY LOG

DATE	8/6/10
SHEET 1	OF 2

FACILITY NAME: NAS Brunswick SITE(s): FMBW and Site 12	PROJECT NO: 112G02063 TASK CODES: 0000.1402, 0000.1403
FIELD ACTIVITY SUBJECT: Time Critical MEC Removal Action	
SUMMARY OF DAILY PROGRESS: LIST TRANSECTS AND/OR GRIDS and INSTRUMENTS USED: Mobilization/Set Preparation: N/A UXO Escort/Avoidance: N/A Site-Specific Training/IVS Certification: N/A Detector Aided Surface Surveys: N/A Surface/Subsurface Clearance: Site 12, the crew walked and swept the access road three abreast starting at the SW corner of Grid F1 moving North to the SW corner of L2, then crossed the road and proceeded South back to the starting point on the opposite side of the road. This activity completely finishes Site 12. No MEC/MPPEH was found. For FMBW activities see Description of Daily activities and Events Listed below. Data Processing and Interpretation: N/A Disposal of MEC: N/A Demobilization: N/A	
DOCUMENTATION OF MEC/MPPEH ENCOUNTERED: N/A LIST TRANSECT AND/OR GRID, PHOTO ID, AND DESCRIPTION	



TETRA TECH NUS, INC.

DATE	8/6/10
SHEET 2	OF 2

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

The crew assembled at the Site 12 storage area for daily safety brief, collected tools and equipment and proceeded to FMBW to resume, Transect sweeping and investigations. By COB today all Transects have been completed, and all anomalies encountered have been dug to 1 foot. No MEC/MPPEH has been found so far. All Transects have been QC'd and all have passed.

All target anomalies selected for investigation have been located and a flag has been placed at those Grid Coordinates. Starting Monday 8/9/10 we will start reacquiring and digging the anomalies.

Today all heavy equipment was cleaned as well as possible w/o water (we have no water source) we were told when the equipment was delivered that we should try get as much mud off the tracks as possible for transport down public highways.

Site 12, has been completely finished as of today.

The IVS at Site 12 has been removed and restored to its original condition.

The "Bravo Flag" and all road barriers have been relocated to FMBA.

All Transect data will be transferred to the proper form by Monday, close of business.

SUXOS and Safety Officer performed inventory of explosive magazines

IMPORTANT PHONE CALLS/DECISIONS: None

FIELD TASK MODIFICATIONS: N/A

WEATHER CONDITIONS: Sunshine to start then few clouds in PM, High 80F, Winds W @ 10-20mph

VISITORS ON SITE: N/A

PERSONNEL ON SITE: Syd Rodgers, Glen Childers, Frank Loney, Norm Piper, Alfred Smith, Jake Clements, Frank Montes, Mark Soha

SIGNATURE:

DATE: 8/6/10



TETRA TECH NUS, INC.

MEC FIELD ACTIVITY DAILY LOG

DATE	8/9/10
SHEET 1	OF 2

FACILITY NAME: NAS Brunswick SITE(s): FMBW	PROJECT NO: 112G02063 TASK CODES: 0000.1402
FIELD ACTIVITY SUBJECT: Time Critical MEC Removal Action	
SUMMARY OF DAILY PROGRESS: LIST TRANSECTS AND/OR GRIDS and INSTRUMENTS USED: Mobilization/Set Preparation: N/A UXO Escort/Avoidance: N/A Site-Specific Training/IVS Certification: N/A Detector Aided Surface Surveys: N/A Surface/Subsurface Clearance: Intrusive investigation of target anomalies at FMBW. Data Processing and Interpretation: N/A Disposal of MEC: N/A Demobilization: N/A	
DOCUMENTATION OF MEC/MPPEH ENCOUNTERED: N/A LIST TRANSECT AND/OR GRID, PHOTO ID, AND DESCRIPTION	



TETRA TECH NUS, INC.

DATE	8/9/10
SHEET 2	OF 2

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

07:00 The crew assembled at Site 12 storage area for daily safety briefing, collect tools and equipment, and move to FMBW to reacquire anomalies identified by Tetra Tech NUS. Prior to departure, the entire crew went over reacquire procedures one more time as outlined in our Work Plan. When all personnel had a complete understanding of what was expected we departed for FMBW to run the instruments through the IVS, to verify all instruments were operating properly prior to starting the actual data collection.

21 Flags were investigated today, no MEC/MPPEH was encountered, all that was encountered was miscellaneous scrap metal. (see additional sheet for results of digs)

16:00 Terminated reacquire activities, to secure tools and equipment at Site 12 storage facility.

17:00 Secured for the day

IMPORTANT PHONE CALLS/DECISIONS: None

FIELD TASK MODIFICATIONS: N/A

WEATHER CONDITIONS: Showers early with possible "T" storms in PM, High 80F, Winds SSW @ 5-10mph, Rain 30%

VISITORS ON SITE: N/A

PERSONNEL ON SITE: Syd Rodgers, Glen Childers, Frank Loney, Norm Piper, Alfred Smith, Jake Clements, Frank Montes, Mark Soha

SIGNATURE:

DATE: 8/9/10



TETRA TECH NUS, INC.

MEC FIELD ACTIVITY DAILY LOG

DATE	8/10/10
SHEET	1 OF 2

FACILITY NAME: NAS Brunswick SITE(s): FMBW	PROJECT NO: 112G02063 TASK CODES: 0000.1402
FIELD ACTIVITY SUBJECT: Time Critical MEC Removal Action	
SUMMARY OF DAILY PROGRESS: LIST TRANSECTS AND/OR GRIDS and INSTRUMENTS USED: Mobilization/Set Preparation: N/A UXO Escort/Avoidance: N/A Site-Specific Training/IVS Certification: N/A Detector Aided Surface Surveys: N/A Surface/Subsurface Clearance: Intrusive investigation of target anomalies at FMBW Data Processing and Interpretation: N/A Disposal of MEC: N/A Demobilization: N/A	
DOCUMENTATION OF MEC/MPPEH ENCOUNTERED: No MEC/MPPEH encountered today at FMBW LIST TRANSECT AND/OR GRID, PHOTO ID, AND DESCRIPTION	



TETRA TECH NUS, INC.

DATE	8/10/10
SHEET 2	OF 2

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

07:00 The crew assembled at the Site 12 storage facility for daily safety briefing, collect tools and equipment and discuss the plan of the day.

Mr. Thomas Douglas (NAVEODTECHDIV) attended the meeting, Mr. Douglas is here for QA audit the operations at FMBW and will be here until that operation is finished.

07:30 Crew departed for the IVS at FMBW to do daily checks of equipment.

08:00 Started investigating anomalies.

Approximately 13:30 met with Mr. Doug Murray (NOSSA). Mr. Murray will conduct a NOSSA audit of FMBW operations. He requested a copy of our Work Plan and all Field Change Requests to review over night. His audit will commence on 8/11/10.

46 anomalies were investigated today, of these there were 21 no finds.

16:00 Terminated daily operations, to return tools and equipment to safe storage

17:00 Secured for the day.

IMPORTANT PHONE CALLS/DECISIONS: None

FIELD TASK MODIFICATIONS: N/A

WEATHER CONDITIONS: Mix of sun and clouds, a stray afternoon thundershower possible, High 84F, Winds light and variable

VISITORS ON SITE: Mr. Thomas Douglas (NAVEODTECHDIV) to conduct an operations audit; Mr Doug Murray (NOSSA) was not on site today.

PERSONNEL ON SITE: Syd Rodgers, Glen Childers, Frank Loney, Norm Piper, Alfred Smith, Jake Clements, Frank Montes, Mark Soha

SIGNATURE:

Syd Rodgers

DATE: 8/10/10



DATE	8/11/10
SHEET 1	OF 3

MEC FIELD ACTIVITY DAILY LOG

FACILITY NAME: NAS Brunswick SITE(s): FMBW	PROJECT NO: 112G02063 TASK CODES: 0000.1402
FIELD ACTIVITY SUBJECT: Time Critical MEC Removal Action	
SUMMARY OF DAILY PROGRESS: LIST TRANSECTS AND/OR GRIDS and INSTRUMENTS USED: Mobilization/Set Preparation: N/A UXO Escort/Avoidance: N/A Site-Specific Training/IVS Certification: N/A Detector Aided Surface Surveys: N/A Surface/Subsurface Clearance: Intrusive investigation of target anomalies at FMBW Data Processing and Interpretation: N/A Disposal of MEC: N/A Demobilization: N/A	
DOCUMENTATION OF MEC/MPPEH ENCOUNTERED: N/A LIST TRANSECT AND/OR GRID, PHOTO ID, AND DESCRIPTION	



TETRA TECH NUS, INC.

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

07:00 Crew assembled at the Site 12 storage area for the daily safety briefing, collect tools and equipment and discuss what was to be accomplished today.

07:25 Crew departed for the IVS at FMBW to verify equipment was operating properly.

The UXOQCS and SUXOS stayed behind to review selected documents with Mr. Douglas Murray (NOSSA).

UXOQCS and SUXOS spent the better part of the morning with NOSSA reviewing documents.

SUXOS and Mr. Murray departed to complete an inventory of explosive magazines.

Mr. Murray departed site at approximately 11:30hrs.

38 anomalies were investigated today; No MEC/MPPEH was encountered.

16:00 Terminated daily activities to return tools and equipment to storage facility

17:00 Secured for the day

IMPORTANT PHONE CALLS/DECISIONS: None

FIELD TASK MODIFICATIONS: N/A

WEATHER CONDITIONS: Abundant sunshine, High 80F, Winds NNE @ 5-10mph

VISITORS ON SITE: Mr. Doug Murray (NOSSA) arrived to conduct a NOSSA Audit; Mr. Thomas Douglas (NAVEODTECHDIV) continued QA audit at the same time

PERSONNEL ON SITE: Syd Rodgers, Glen Childers, Frank Loney, Norm Piper, Alfred Smith, Jake Clements, Frank Montes, Mark Soha

SIGNATURE:

Syd Rodgers

DATE: 8/11/10



TETRA TECH NUS, INC.

DATE	8/12/10
SHEET	1 OF 3

MEC FIELD ACTIVITY DAILY LOG

FACILITY NAME: NAS Brunswick SITE(s): FMBW	PROJECT NO: 112G02063 TASK CODES: 0000.1402
FIELD ACTIVITY SUBJECT: Time Critical MEC Removal Action	
SUMMARY OF DAILY PROGRESS: LIST TRANSECTS AND/OR GRIDS and INSTRUMENTS USED: Mobilization/Set Preparation: N/A UXO Escort/Avoidance: N/A Site-Specific Training/IVS Certification: N/A Detector Aided Surface Surveys: N/A Surface/Subsurface Clearance: Intrusive investigation of target anomalies at FMBW Data Processing and Interpretation: N/A Disposal of MEC: N/A Demobilization: Norm Piper demobilized today	
DOCUMENTATION OF MEC/MPPEH ENCOUNTERED: N/A LIST TRANSECT AND/OR GRID, PHOTO ID, AND DESCRIPTION	



TETRA TECH NUS, INC.

DATE	8/12/10
SHEET 3	OF 3

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

07:00 The crew assembled at the Site 12 storage area to receive the daily Safety Briefing, collect tools and equipment and discuss the plan of the day.

07:25 The crew departed for FMBW to perform instrument check out at IVS. And then investigate the last few anomaly locations.

11 anomalies were investigated today to finish all anomalies.

When the anomalies were complete Mr. Thomas Douglas (NAVEODTECHDIV) departed the AO. With all flags investigated the crew gathered up the road barriers and the "Bravo Flag" for transportation back to Site 12. The team cleaned tools and equipment, started the packing process, and departed for the mail center to send equipment back to Tetra Tech NUS.

Selected items of locally rented equipment were turned in.

Heavy Equipment is scheduled for Pick up 8/13/10.

Port a John is scheduled for Pick up 8/16/10

Demolition Operations for explosive clean up is scheduled for 8/13/10.

Selected items of MPPEH were identified for treatment during Demo Operations 8/13/10

All MPPEH will be transported to type 2 magazines for storage until it can be certified as MDAS.

Last item of rented equipment (tractor with bucket) will be turned in 8/14/10 or 8/16/10 when no longer needed.

Majority of team will de mob on 8/14/10

Final de mob (SUXOS and UXO SAFETY/QC) will de mob 8/17/10

IMPORTANT PHONE CALLS/DECISIONS: None

FIELD TASK MODIFICATIONS: N/A

WEATHER CONDITIONS: Mix of clouds and sun, High 73F, Winds E@5-10mph

VISITORS ON SITE: Thomas Douglas (NAVEODTECHDIV) conducting an audit of our operational procedure

PERSONNEL ON SITE: Syd Rodgers, Glen Childers, Frank Loney, Alfred Smith, Jake Clements, Frank Montes, Mark Soha

SIGNATURE:

Syd Rodgers

DATE: 8/12/10



DATE	8/16/10
SHEET	1 OF 2

MEC FIELD ACTIVITY DAILY LOG

FACILITY NAME: NAS Brunswick SITE(s): Site 12 and FMBW area	PROJECT NO: 112G02063 TASK CODES: 0000.1401
FIELD ACTIVITY SUBJECT: Time Critical MEC Removal Action	
SUMMARY OF DAILY PROGRESS: LIST TRANSECTS AND/OR GRIDS and INSTRUMENTS USED: Mobilization/Set Preparation: N/A UXO Escort/Avoidance: N/A Site-Specific Training/IVS Certification: N/A Detector Aided Surface Surveys: N/A Surface/Subsurface Clearance: N/A Data Processing and Interpretation: N/A Disposal of MEC: Demobilization: Mark Soha, Frank Montes, Frank Loney De Mobbed on 8/14/10, Alfred Smith will De Mob 8/16/10	
DOCUMENTATION OF MEC/MPPEH ENCOUNTERED: N/A LIST TRANSECT AND/OR GRID, PHOTO ID, AND DESCRIPTION	



TETRA TECH NUS, INC.

DATE	8/16/10
SHEET 2 OF 2	

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

The only activities today are having the Port a John picked up, and making the final trips to Fed- Ex to mail the remaining equipment and files to Ralph Brooks.

We took our locks off the security gates and Mr. Mike Fagan replaced them with his own locks.

SUXOS and Safety Officer will De Mob 8/17/10

Project complete

IMPORTANT PHONE CALLS/DECISIONS: None

FIELD TASK MODIFICATIONS: N/A

WEATHER CONDITIONS: Fog and partly in the AM, High 77F, Winds ESE @ 5-10mph

VISITORS ON SITE: N/A

PERSONNEL ON SITE: Syd Rodgers, Glen Childers

SIGNATURE:

Syd Rodgers

DATE: 8/16/10

A.3 VISITOR LOGS



TETRA TECH NUS, INC.

VISITERS LOG

NAS BRUNSWICK, BRUNSWICK, MAINE

DATE	PRINT NAME	SIGNATURE	ORGANIZATION	PHONE #
6/15/10	JAMES E. BEUKNAP	<i>[Signature]</i>	PW Lockshop	925- #1757
6/15/10	A. J ANDREAU	<i>[Signature]</i>	ONTARGET	215 6385
6/15/10	Joseph Roberts	<i>[Signature]</i>	Safety	X1313
6/15/10	do HD GARY	<i>[Signature]</i>	Security	X2740
6/15/10	Ron Tuttle	<i>[Signature]</i>	NAS XO	X220-
6/15/10	BRK HALL	<i>[Signature]</i>	NASB ESO	X1319
6/15/10	MICHAEL FAGAN	<i>[Signature]</i>	NASB ENVIRONMENTAL	X1717
6/15	JOHN RILEY	<i>[Signature]</i>	" RSO	X2000
6/21	Thomas Douglas	<i>[Signature]</i>	NAVEDOTD	301-266- 9022
6/21	Arnold BURR	<i>[Signature]</i>	NAVEDOTD	301-461- 7767
6/21	Thomas Douglas	<i>[Signature]</i>	NAVEDOTD	301-266 9022
6/22	Arnold Burr	<i>[Signature]</i>	"	301-461 7767
6/30	Thomas Smith	<i>[Signature]</i>	FD	2503
6/30	John Wilson	<i>[Signature]</i>	FD	2503
6/30	Kipp Dombrowski	<i>[Signature]</i>	FD	2503



VISITERS LOG

NAS BRUNSWICK, BRUNSWICK, MAINE

DATE	PRINT NAME	SIGNATURE	ORGANIZATION	PHONE #
6/30	RANDALL MORAN		FIRE DEPT	921-2666
6/30	RAMON LIMON		FD	562 832-6996
7/5	James Rossi		ATL Office	707 845-6046
7/7/10	DOUGLAS MURRAY		NOSSA	301-744 -5630
7/7/10	James Rossi		ATL Office	707 845-6046
7/7/10	BK HALL		NASB/SAFETY ESS	207 921-1319
8/1/10	James Rossi		MRP PM	707 845-6046
7/8/10	DOUG MURRAY		NOSSA	240-461 -7350
7/8/10	MICHAEL FACAN		NASB	207 921 1717
7/14/10	Thomas Smith		FD	921- 1619
7/14/10	KIPP DOMBROWSKI		FD	921- 1619
7/14/10	LIMON RAMON		FD	921 1619
7-14-10	Dave Renfro		F.I.J.	921 1619
7-14-10	Scott Lizotte		F.D.	921 - 1619
7-20-10	RANDALL MORAN		Fire	2666



TETRA TECH NUS, INC.

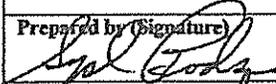
VISITORS LOG

NAS BRUNSWICK, BRUNSWICK, MAINE

DATE	PRINT NAME	SIGNATURE	ORGANIZATION	PHONE #
7/20	William Price		FD	x1619
7/20	Mike Nicholas		FD	x1320
7/20	Kipp Darmbrowski		FD	x1619
7/20	PETER A. MOORE		FD	x1619
7/20	Michael R. Demers		FD	x1619
7/20	Scott Lizotte		FD	x1619
7/20	Lawrence J. Mayer ^{tb}		FD	x1619
7/20	Union Ranson		F. D	x1619
7/21	MICHAEL FARAN		NASB	207 821 1717
7/21	LINDA KLINK		TETRA TECH	412-720-1421
7/21	Chris Lilly		Glass Pro	207 590-5591
7/21	Stanley Watts		Glass Pro	400-6830
7/21	Jason Sperry		United Rentals	252-5244
7/27	David McAlhann		NASB FD	x1619
7/27	Wayne Libbe		NASB FD	x1619

A.4 FIELD CHANGE REQUEST FORMS

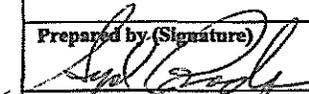
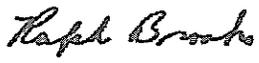
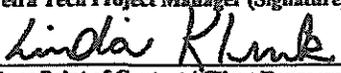
FIELD CHANGE REQUEST (FCR)

CONTRACT TASK ORDER NAME: MEC Removal Action Work Plan	CTO # WE09	CHANGE REQUEST NO. 01
TO: Site 12 EOD and Former Munitions Bunker West	LOCATION: NAS Brunswick, ME	DATE: 25 June, 2010
RE: Drawing # _____ Title: _____ Specific Sections: <u>2.4</u> Title: <u>TECHNICAL SCOPE</u> Other: <u>Site 12 EOD Area Fifth Bullet (Page 2-4)</u>		
1. DESCRIPTION (items involved, submit sketch, if applicable): See Page 2 of Field Change Request.		
2. REASON FOR CHANGE: Provide Clarification that only surface non-MEC debris will be moved (and not subsurface non-MEC debris). This clarification was made after encountering debris that was visible on the surface but partly buried.		
3. RECOMMENDED DISPOSITION (Submit sketch, if applicable): <input checked="" type="checkbox"/> Minor Change <input type="checkbox"/> Major Change (Impacts Cost, Schedule)		
4. DISPOSITION: (Approval Required by Client Representative) <input type="checkbox"/> Not Approved (give reason). <input checked="" type="checkbox"/> Considered minor change -- APPROVED per recommended disposition -- Documents will not be formally revised. Field office to maintain as --built records. <input type="checkbox"/> Considered major change -- Client approval required via contract modification process		
Prepared by (Signature) 	Date: <u>2 July 2010</u>	
Tetra Tech UXO Manager (Signature) 	Date: <u>2 July 2010</u>	
Tetra Tech Project Manager (Signature)  - Task Manager	Date: <u>2 July 2010</u>	
Navy Point of Contact / Client Representative (Signature) <u>NA-MINOR CHANGE</u>	Date: <u>—</u>	

cc. Jeff Orient
 Project File WE09, 112G02063

- Non-MEC debris, for example, tire rims and shovel heads (non-MEC contaminated items), located entirely on the surface during the detector-aided surface surveys will be moved to a nearby location; marshalling, ~~and~~ off-site disposal, and subsurface digging/intrusive operations of partially buried non-MEC debris will be deferred to the RI or addressed by NASB. After removal of the non-MEC debris, a detector-aided surface survey will be conducted to ensure that no surface MEC is now visible.

FIELD CHANGE REQUEST (FCR)

CONTRACT TASK ORDER NAME: MEC Removal Action Work Plan	CTO # WE09	CHANGE REQUEST NO. 02
TO: Site 12 EOD and Former Munitions Bunker West	LOCATION: NAS Brunswick, ME	DATE: 28 June, 2010
RE: Drawing # _____ Title: _____ Specific Sections: <u>2.4</u> Title: <u>TECHNICAL SCOPE</u> Other: <u>Site 12 EOD Area: Second Bullet (Page 2-3); Fourth Sentence: Fourth Bullet (Page 2-4)</u>		
1. DESCRIPTION (NASE Instructions not to cut wetlands plus one area providing unsafe sweeping and cutting conditions): One area has rock cliffs and 80-90 degree slopes. See attached map (MRP website)		
2. REASON FOR CHANGE: Unable to comply with Work Plan due to safety and environmental issues.		
3. RECOMMENDED DISPOSITION (Submit sketch, if applicable): <input checked="" type="checkbox"/> Minor Change <input type="checkbox"/> Major Change (Impacts Cost, Schedule)		
4. DISPOSITION: (Approval Required by Client Representative) <input type="checkbox"/> Not Approved (give reason). <input checked="" type="checkbox"/> Considered minor change – APPROVED per recommended disposition – Documents will not be formally revised. Field office to maintain as-built records. <input type="checkbox"/> Considered major change – Client approval required via contract modification process		
Prepared by (Signature) 	Date: 28 June 2010	
Tetra Tech UXO Manager (Signature) 	Date: 30 June, 2010	
Tetra Tech Project Manager (Signature) 	Date: 6/30/10	
Navy Point of Contact / Client Representative (Signature) NA	Date:	

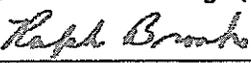
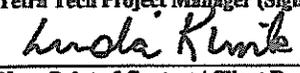
Site 12 EOD Area; Second Bullet (Page2-3); Fourth Sentence

- ... Therefore, it is planned to conduct brush cutting, and detector-aided surface investigation and removal activities across 100 percent of the accessible area within the perimeter road of the site. Wetlands as identified by Mike Fagan (NASB Environmental) will be avoided for environmental reasons, and steep cliff areas will be avoided for safety reasons at this phase of the work.

Fourth Bullet (Page 2-4)

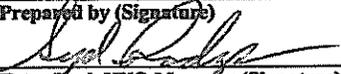
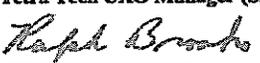
- The pond, wetlands (as identified by Mike Fagan NASB Environmental), and steep cliff areas will not be investigated at this time, but will be investigated during a subsequent RI.

FIELD CHANGE REQUEST (FCR)

CONTRACT TASK ORDER NAME: MEC Removal Action Work Plan	CTO # WE09	CHANGE REQUEST NO. 03
TO: Time Critical Munitions and Explosives of Concern Removal Action Work Plan for Site 12 Explosive Ordnance Disposal Area and Former Munitions Bunker West Area	LOCATION: NAS Brunswick, ME	DATE: 9 July, 2010
RE: Drawing # _____ Title: _____ Specific Sections: <u>3.2.4</u> Title: <u>Transportation</u> Other: <u>Second Para. last sentence. Page 3-3</u>		
1. DESCRIPTION: Delivery trucks will report to the back gate and be escorted by weapons storage personnel along the appropriate route to the ammunition magazine.		
2. REASON FOR CHANGE: There are no weapons storage personnel left on NASE.		
3. RECOMMENDED DISPOSITION (Submit sketch, if applicable): <input checked="" type="checkbox"/> Minor Change <input type="checkbox"/> Major Change (Impacts Cost, Schedule)		
4. DISPOSITION: (Approval Required by Client Representative) <input type="checkbox"/> Not Approved (give reason). <input checked="" type="checkbox"/> Considered minor change APPROVED per recommended disposition Documents will not be formally revised. Field office to maintain as-built records. <input type="checkbox"/> Considered major change - Client approval required via contract modification process		
Prepared by (Signature) 	Date: 9 July, 2010	
Tetra Tech UXO Manager (Signature) 	Date: 15 July 2010	
Tetra Tech Project Manager (Signature) 	Date: 7/15/10	
Navy Point of Contact / Client Representative (Signature) NA	Date:	

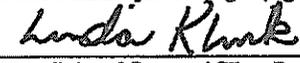
Change to read: Delivery trucks will report to the back gate and be escorted by ~~weapon-storage~~UXO personnel along the appropriate route to the Type 2 ammunition magazine. ~~UXO~~ personnel

FIELD CHANGE REQUEST (FCR)

CONTRACT TASK ORDER NAME: MEC Removal Action Work Plan	CTO # WE09	CHANGE REQUEST NO. 04
TO: Time Critical Munitions and Explosives of Concern Removal Action Work Plan for Site 12 Explosive Ordnance Disposal Area and Former Munitions Bunker West Area	LOCATION: NAS Brunswick, ME	DATE: 9 July, 2010
RE: Drawing # _____ Title: _____ Specific Sections: <u>2.12</u> Title: <u>REPORTING AND DISPOSITION OF MEC</u> Other: <u>Site 12 EOD Area: 2nd Sentence; 3rd Sentence; 5th Sentence</u>		
1. DESCRIPTION : The temporary holding area will consist of 2 feet of sandbags placed on all four sides of each MEC/MPPEH item, with a plywood cover and 2 feet of sandbags on top		
2. REASON FOR CHANGE: Unnecessary, items which are safe to move will be moved to Site 12 EOD Area for treatment, or the MEC Type 2 magazine to storage until treatment.		
3. RECOMMENDED DISPOSITION (Submit sketch, if applicable): <input checked="" type="checkbox"/> Minor Change _____ Major Change (Impacts Cost, Schedule)		
4. DISPOSITION: (Approval Required by Client Representative) _____ Not Approved (give reason). <input checked="" type="checkbox"/> Considered minor change -- APPROVED per recommended disposition Documents will not be formally revised. Field office to maintain as -built records. _____ Considered major change Client approval required via contract modification process		
Prepared by (Signature) 	Date: 9 July, 2010	
Tetra Tech UXO Manager (Signature) 	Date: 15 July 2010	
Tetra Tech Project Manager (Signature) 	Date: 7/15/10	
Navy Point of Contact / Client Representative (Signature) NA	Date:	

If MEC are identified and deemed safe to move, the UXO team may transport the item(s) to a temporary holding area that will be established at the Site 12 EOD Area for recovered MEC/MPPEH that are determined safe to move and awaiting disposal. The temporary holding area will consist of 2 feet of sandbags placed on all four sides of each MEC/MPPEH item, with a plywood cover and 2 feet of sandbags on top. This area will be under the control of the UXO Team Leader until disposal operations have been completed. The ESQD arc created by the NEW for each item temporary holding area will not extend beyond that established for the site.

FIELD CHANGE REQUEST (FCR)

CONTRACT TASK ORDER NAME: MEC Removal Action Work Plan	CTO # WE09	CHANGE REQUEST NO. 05
TO: Time Critical Munitions and Explosives of Concern Removal Action Work Plan for Site 12 Explosive Ordnance Disposal Area and Former Munitions Bunker West Area	LOCATION: NAS Brunswick, ME	DATE: 9 July, 2010
RE: Drawing # _____ Title: _____ Specific Sections: <u>Para 2.4.3</u> _____ Title: <u>Equipment Checkout and Calibration</u> Other: <u>Page 2-7, Line 1</u> _____		
1. DESCRIPTION : All instruments used during this investigation and removal action operation will be checked at the start of each day and after each battery change, to ensure they are capable of detecting the buried target items/surrogates.		
2. REASON FOR CHANGE: Delete all. No need to check all instruments daily if they are not going to be used that day.		
3. RECOMMENDED DISPOSITION (Submit sketch, if applicable): <input checked="" type="checkbox"/> Minor Change _____ Major Change (Impacts Cost, Schedule)		
4. DISPOSITION: (Approval Required by Client Representative) _____ Not Approved (give reason). <input checked="" type="checkbox"/> Considered minor change -- APPROVED per recommended disposition Documents will not be formally revised. Field office to maintain as - built records. Considered major change -- Client approval required via contract modification process		
Prepared by (Signature) 		Date: 9 July, 2010
Tetra Tech UXO Manager (Signature) 		Date: 15 July 2010
Tetra Tech Project Manager (Signature) 		Date: 7/15/10
Navy Point of Contact / Client Representative (Signature) NA		Date:

All UXO instruments used during this investigation and removal action operation will be checked at the start of each day and after each battery change, to ensure they are capable of detecting the buried target items/surrogates.

FIELD CHANGE REQUEST (FCR)

CONTRACT TASK ORDER NAME: MEC Removal Action Work Plan	CTO # WE09	CHANGE REQUEST NO. 06
TO: Time Critical Munitions and Explosives of Concern Removal Action Work Plan for Site 12 Explosive Ordnance Disposal Area and Former Munitions Bunker West Area	LOCATION: NAS Brunswick, ME	DATE: 1 August, 2010
RE: <div style="text-align: center;"> Drawing # _____ Title: _____ </div> <div style="text-align: center; margin-top: 10px;"> Specific Sections: <u>Para 2.6.5</u> _____ Title: <u>UXOSO/UXOQCS</u> </div> <div style="text-align: center; margin-top: 10px;"> Other: <u>Page 2-9, Second Sentence</u> </div>		
1. DESCRIPTION : The UXOSO/UXOQC will meet the qualifications stated in DDESB TP 18 (DDESB, 2004).		
2. REASON FOR CHANGE: NOSSAINST 802015 B requires UXOQCS to have specialized training in quality.		
3. RECOMMENDED DISPOSITION (Submit sketch, if applicable): <input checked="" type="checkbox"/> Minor Change <input type="checkbox"/> Major Change (Impacts Cost, Schedule)		
4. DISPOSITION: (Approval Required by Client Representative) <input type="checkbox"/> Not Approved (give reason). <input checked="" type="checkbox"/> Considered minor change -- APPROVED per recommended disposition -- Documents will not be formally revised. Field office to maintain as --built records. <input type="checkbox"/> Considered major change -- Client approval required via contract modification process		
Prepared by (Signature) <i>Raph Brooks</i>	Date: 2 August, 2010	
Tetra Tech UXO Manager (Signature) <i>Raph Brooks</i>	Date: 9 August, 2010	
Tetra Tech Project Manager (Signature) <i>Linda Klink</i>	Date: 8/9/10	
Navy Point of Contact / Client Representative (Signature) <i>NA</i>	Date:	

The UXOSO/UXOQC will meet the qualifications stated in DDESB TP 18 (DDESB, 2004) and have specialized training in quality as stated in NOSSAINST 8020.15B.

FIELD CHANGE REQUEST (FCR)

CONTRACT TASK ORDER NAME: MEC Removal Action Work Plan	CTO # WE09	CHANGE REQUEST NO. 07
TO: Time Critical Munitions and Explosives of Concern Removal Action Work Plan for Site 12 Explosive Ordnance Disposal Area and Former Munitions Bunker West Area	LOCATION: NAS Brunswick, ME	DATE: 1 August, 2010
RE: Drawing # _____ Title: _____ Specific Sections: Para 10.3 _____ Title: <u>FIELD DOCUMENTATION</u> Other: <u>Page 10-4, First Set of Bullets</u>		
1. DESCRIPTION : Add <ul style="list-style-type: none"> • Non-Conformance Report (for any QC or QA failure) 		
2. REASON FOR CHANGE: Add requirement for UXOQCS to complete a Non-Conformance Report for each QC or QA failure.		
3. RECOMMENDED DISPOSITION (Submit sketch, if applicable): <input checked="" type="checkbox"/> Minor Change _____ Major Change (Impacts Cost, Schedule)		
4. DISPOSITION: (Approval Required by Client Representative) _____ Not Approved (give reason). <input checked="" type="checkbox"/> Considered minor change - APPROVED per recommended disposition - Documents will not be formally revised. Field office to maintain as -built records. _____ Considered major change - Client approval required via contract modification process		
Prepared by (Signature) <i>Raph Brooks</i>	Date: 1 August, 2010	
Tetra Tech UXO Manager (Signature) <i>Raph Brooks</i>	Date: 9 August, 2010	
Tetra Tech Project Manager (Signature) <i>Linda Klank</i>	Date: 8/9/10	
Navy Point of Contact / Client Representative (Signature) NA	Date:	

FIELD CHANGE REQUEST (FCR)

CONTRACT TASK ORDER NAME: MEC Removal Action Work Plan	CTO # WE09	CHANGE REQUEST NO. 08
TO: Time Critical Munitions and Explosives of Concern Removal Action Work Plan for Site 12 Explosive Ordnance Disposal Area and Former Munitions Bunker West Area	LOCATION: NAS Brunswick, ME	DATE: 1 August, 2010
RE: <div style="text-align: center;"> Drawing # _____ Title: _____ Specific Sections: <u>1</u> _____ Title: <u>ADDENDUM DATED MAY 26, 2010</u> Other: <u>Page 1</u> _____ </div>		
1. DESCRIPTION : Add after second paragraph; Empty signs shall be posted and fire division/chemical hazard symbols removed or covered on Type 2 magazines whose contents have been removed. Empty signs will be stored inside the magazine when not in use.		
2. REASON FOR CHANGE: No clear guidance on the use of Empty signs are provided in the Work Plan.		
3. RECOMMENDED DISPOSITION (Submit sketch, if applicable): <input checked="" type="checkbox"/> Minor Change <input type="checkbox"/> Major Change (Impacts Cost, Schedule)		
4. DISPOSITION: (Approval Required by Client Representative) <input type="checkbox"/> Not Approved (give reason). <input checked="" type="checkbox"/> Considered minor change – APPROVED per recommended disposition – Documents will not be formally revised. Field office to maintain as -built records. <input type="checkbox"/> Considered major change – Client approval required via contract modification process		
Prepared by (Signature) <i>Raph Brooks</i>		Date: 1 August, 2010
Tetra Tech UXO Manager (Signature) <i>Raph Brooks</i>		Date: 9 August, 2010
Tetra Tech Project Manager (Signature) <i>Linda Runk</i>		Date: <u>8/9/10</u>
Navy Point of Contact / Client Representative (Signature) <u>NA</u>		Date:

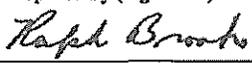
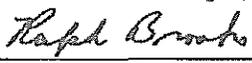
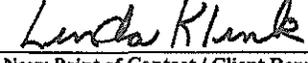
FIELD CHANGE REQUEST (FCR)

CONTRACT TASK ORDER NAME: MEC Removal Action Work Plan	CTO # WE09	CHANGE REQUEST NO. 09
TO: Time Critical Munitions and Explosives of Concern Removal Action Work Plan for Site 12 Explosive Ordnance Disposal Area and Former Munitions Bunker West Area	LOCATION: NAS Brunswick, ME	DATE: 1 August, 2010
RE: Drawing # _____ Title: _____ Specific Sections: <u>1</u> _____ Title: <u>ADDENDUM DATED MAY 26, 2010</u> Other: <u>Page 1</u> _____		
1. DESCRIPTION : Add after second paragraph; A red flag shall be displayed near the magazines whenever magazines containing MEC/MPPEH or donor charge are open.		
2. REASON FOR CHANGE: The requirement for a red (bravo) flag was not addressed in the Work Plan.		
3. RECOMMENDED DISPOSITION (Submit sketch, if applicable): <input checked="" type="checkbox"/> Minor Change <input type="checkbox"/> Major Change (Impacts Cost, Schedule)		
4. DISPOSITION: (Approval Required by Client Representative) <input type="checkbox"/> Not Approved (give reason). <input checked="" type="checkbox"/> Considered minor change – APPROVED per recommended disposition – Documents will not be formally revised. Field office to maintain as –built records. <input type="checkbox"/> Considered major change – Client approval required via contract modification process		
Prepared by (Signature) <i>Raph Brooks</i>	Date: 1 August, 2010	
Tetra Tech UXO Manager (Signature) <i>Raph Brooks</i>	Date: 9 August, 2010	
Tetra Tech Project Manager (Signature) <i>Linda Klunk</i>	Date: 8/9/10	
Navy Point of Contact / Client Representative (Signature) NA	Date:	

FIELD CHANGE REQUEST (FCR)

CONTRACT TASK ORDER NAME: MEC Removal Action Work Plan	CTO # WE09	CHANGE REQUEST NO. 10
TO: Time Critical Munitions and Explosives of Concern Removal Action Work Plan for Site 12 Explosive Ordnance Disposal Area and Former Munitions Bunker West Area	LOCATION: NAS Brunswick, ME	DATE: 1 August, 2010
RE: Drawing # _____ Title: _____ Specific Sections: <u>2.8.1</u> Title: <u>Site Accessibility and Traffic Control</u> Other: <u>Page 2-12, Paragraph 5</u>		
1. DESCRIPTION : Add after fifth paragraph; A red flag shall be displayed on the barricades at main access points whenever MEC/MPPEH investigation and treatment operations are in progress. The UXOSO will conduct an operational risk management assessment prior to permitting authorized visitors to enter the exclusion zone. The Risk Assessment Code will be entered on the Visitors Log next to the authorized visitor's name.		
2. REASON FOR CHANGE: The requirement for a red (bravo) flag was not addressed in the Work Plan. Visitors Log will be used to record that a risk assessment was conducted and what was the determination.		
3. RECOMMENDED DISPOSITION (Submit sketch, if applicable): <input checked="" type="checkbox"/> Minor Change <input type="checkbox"/> Major Change (Impacts Cost, Schedule)		
4. DISPOSITION: (Approval Required by Client Representative) <input type="checkbox"/> Not Approved (give reason). <input checked="" type="checkbox"/> Considered minor change – APPROVED per recommended disposition – Documents will not be formally revised. Field office to maintain as –built records. <input type="checkbox"/> Considered major change – Client approval required via contract modification process		
Prepared by (Signature) <i>Raph Brooks</i>	Date: 1 August, 2010	
Tetra Tech UXO Manager (Signature) <i>Raph Brooks</i>	Date: 9 August, 2010	
Tetra Tech Project Manager (Signature) <i>Linda Klunk</i>	Date: 8/9/10	
Navy Point of Contact / Client Representative (Signature) NA	Date:	

FIELD CHANGE REQUEST (FCR)

CONTRACT TASK ORDER NAME: MEC Removal Action Work Plan	CTO # WE09	CHANGE REQUEST NO. 11
TO: Time Critical Munitions and Explosives of Concern Removal Action Work Plan for Site 12 Explosive Ordnance Disposal Area and Former Munitions Bunker West Area	LOCATION: NAS Brunswick, ME	DATE: 1 August, 2010
RE: Drawing # _____ Title: _____ Specific Sections: <u>3.2.5</u> Title: <u>Receipt Procedures</u> Other: <u>Page 3-3</u>		
1. DESCRIPTION : Add Second Sentence; Any remaining partially-filled explosives packages will be marked "LIGHT BOX" in accordance with OP5 paragraph 11-2.6.4.		
2. REASON FOR CHANGE: The requirement for marking partially-filled explosives packages was not addressed in the Work Plan.		
3. RECOMMENDED DISPOSITION (Submit sketch, if applicable): <input checked="" type="checkbox"/> Minor Change _____ Major Change (Impacts Cost, Schedule)		
4. DISPOSITION: (Approval Required by Client Representative) _____ Not Approved (give reason). <input checked="" type="checkbox"/> Considered minor change – APPROVED per recommended disposition – Documents will not be formally revised. Field office to maintain as -built records. _____ Considered major change – Client approval required via contract modification process		
Prepared by (Signature) 	Date: 1 August, 2010	
Tetra Tech UXO Manager (Signature) 	Date: 9 August, 2010	
Tetra Tech Project Manager (Signature) 	Date: 8/9/10	
Navy Point of Contact / Client Representative (Signature) NA	Date:	

FIELD CHANGE REQUEST (FCR)

CONTRACT TASK ORDER NAME: MEC Removal Action Work Plan	CTO # WE09	CHANGE REQUEST NO. 12
TO: Time Critical Munitions and Explosives of Concern Removal Action Work Plan for Site 12 Explosive Ordnance Disposal Area and Former Munitions Bunker West Area	LOCATION: NAS Brunswick, ME	DATE: 1 August, 2010
RE: Drawing # _____ Title: _____ Specific Sections: <u>2.7</u> Title: <u>MOBILIZATION, SET-UP, AND PRELIMINARY ACTIVITIES</u> Other: <u>Page 2-11</u>		
1. DESCRIPTION : Add After Second Sentence; Medical surveillance requirements will include certification of explosive vehicle operators as certified to transport ammunition and explosives. Tetra Tech will prepare a letter to certify the explosive vehicle operators as fully qualified to operate an explosives-laden vehicle.		
2. REASON FOR CHANGE: The requirement to document that explosives vehicle operators are medically certified and fully qualified to operate explosive-laden vehicles.		
3. RECOMMENDED DISPOSITION (Submit sketch, if applicable): <input checked="" type="checkbox"/> Minor Change <input type="checkbox"/> Major Change (Impacts Cost, Schedule)		
4. DISPOSITION: (Approval Required by Client Representative) <input type="checkbox"/> Not Approved (give reason). <input checked="" type="checkbox"/> Considered minor change -- APPROVED per recommended disposition -- Documents will not be formally revised. Field office to maintain as -built records. <input type="checkbox"/> Considered major change -- Client approval required via contract modification process		
Prepared by (Signature) <i>Raph Brooks</i>	Date: 1 August, 2010	
Tetra Tech UXO Manager (Signature) <i>Raph Brooks</i>	Date: 9 August, 2010	
Tetra Tech Project Manager (Signature) <i>Linda Kunk</i>	Date: 8/9/10	
Navy Point of Contact / Client Representative (Signature) NA	Date:	

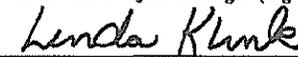
FIELD CHANGE REQUEST (FCR)

CONTRACT TASK ORDER NAME: MEC Removal Action Work Plan	CTO # WE09	CHANGE REQUEST NO. 13
TO: Time Critical Munitions and Explosives of Concern Removal Action Work Plan for Site 12 Explosive Ordnance Disposal Area and Former Munitions Bunker West Area	LOCATION: NAS Brunswick, ME	DATE: 1 August, 2010
RE: Drawing # _____ Title: _____ Specific Sections: <u>2.4.3</u> Title: <u>Equipment Checkout and Calibration</u> Other: <u>Page 2-7; Second Paragraph</u>		
1. DESCRIPTION : Last Sentence of Second Paragraph Change to Read; Positional accuracy will be within manufactures standard for the GPS equipment used. Positional accuracy achieved will be recorded on the Daily QC Report.		
2. REASON FOR CHANGE: The requirement for 8-inch positional accuracy of data during this phase of the project is unnecessary.		
3. RECOMMENDED DISPOSITION (Submit sketch, if applicable): <input checked="" type="checkbox"/> Minor Change <input type="checkbox"/> Major Change (Impacts Cost, Schedule)		
4. DISPOSITION: (Approval Required by Client Representative) <input type="checkbox"/> Not Approved (give reason). <input checked="" type="checkbox"/> Considered minor change – APPROVED per recommended disposition – Documents will not be formally revised. Field office to maintain as -built records. <input type="checkbox"/> Considered major change – Client approval required via contract modification process		
Prepared by (Signature) <i>Raph Brooks</i>	Date: 1 August, 2010	
Tetra Tech UXO Manager (Signature) <i>Raph Brooks</i>	Date: 9 August, 2010	
Tetra Tech Project Manager (Signature) <i>Linda Klunk</i>	Date: 8/9/10	
Navy Point of Contact / Client Representative (Signature) NA	Date:	

FIELD CHANGE REQUEST (FCR)

CONTRACT TASK ORDER NAME: MEC Removal Action Work Plan	CTO # WE09	CHANGE REQUEST NO. 14
TO: Time Critical Munitions and Explosives of Concern Removal Action Work Plan for Site 12 Explosive Ordnance Disposal Area and Former Munitions Bunker West Area	LOCATION: NAS Brunswick, ME	DATE: 1 August, 2010
RE: Drawing # _____ Title: _____ Specific Sections: <u>2.12</u> Title: <u>REPORTING AND DISPOSITION OF MEC</u> Other: <u>Page 2-20: Last Paragraph</u>		
1. DESCRIPTION : Add Sentence at end of Last Paragraph; MEC Tracking Log will be reviewed for accuracy by SUXOS, UXOQCS, and UXO Manager on days when MEC is discovered, or disposition of MEC recorded on the tracking log changed.		
2. REASON FOR CHANGE: The MEC Tracking Log is used to track MEC from discovery to final disposition and a regular review will insure the data collected for the site is accurate and complete.		
3. RECOMMENDED DISPOSITION (Submit sketch, if applicable): <input checked="" type="checkbox"/> Minor Change <input type="checkbox"/> Major Change (Impacts Cost, Schedule)		
4. DISPOSITION: (Approval Required by Client Representative) <input type="checkbox"/> Not Approved (give reason). <input checked="" type="checkbox"/> Considered minor change -- APPROVED per recommended disposition -- Documents will not be formally revised. Field office to maintain as --built records. <input type="checkbox"/> Considered major change -- Client approval required via contract modification process		
Prepared by (Signature) <i>Raph Brooks</i>	Date: 1 August, 2010	
Tetra Tech UXO Manager (Signature) <i>Raph Brooks</i>	Date: 9 August, 2010	
Tetra Tech Project Manager (Signature) <i>Linda Klink</i>	Date: 8/9/10	
Navy Point of Contact / Client Representative (Signature) NA	Date:	

FIELD CHANGE REQUEST (FCR)

CONTRACT TASK ORDER NAME: MEC Removal Action Work Plan	CTO # WE09	CHANGE REQUEST NO. 15
TO: Time Critical Munitions and Explosives of Concern Removal Action Work Plan for Site 12 Explosive Ordnance Disposal Area and Former Munitions Bunker West Area	LOCATION: NAS Brunswick, ME	DATE: 1 August, 2010
RE:		
Drawing # _____ Title: _____ Specific Sections: <u>3.2.4</u> Title: <u>Transportation</u> Other: <u>Page 3-2; First Paragraph</u>		
1. DESCRIPTION : Add Sentence at end of First Paragraph; The use of rental vehicles for the transport of hazardous material (explosives) requires written approval from the rental vehicle agency corporate headquarters, and Navy headquarters.		
2. REASON FOR CHANGE: Use of Corporate approved rental vehicle agency requires notification and approval.		
3. RECOMMENDED DISPOSITION (Submit sketch, if applicable): <input checked="" type="checkbox"/> Minor Change <input type="checkbox"/> Major Change (Impacts Cost, Schedule)		
4. DISPOSITION: (Approval Required by Client Representative) <input type="checkbox"/> Not Approved (give reason). <input checked="" type="checkbox"/> Considered minor change -- APPROVED per recommended disposition -- Documents will not be formally revised. Field office to maintain as -built records. <input type="checkbox"/> Considered major change -- Client approval required via contract modification process		
Prepared by (Signature) 	Date: 1 August, 2010	
Tetra Tech UXO Manager (Signature) 	Date: 9 August, 2010	
Tetra Tech Project Manager (Signature) 	Date: 8/9/10	
Navy Point of Contact / Client Representative (Signature)	Date:	

FIELD CHANGE REQUEST (FCR)

CONTRACT TASK ORDER NAME: MEC Removal Action Work Plan	CTO # WE09	CHANGE REQUEST NO. 16
TO: Time Critical Munitions and Explosives of Concern Removal Action ; Work Plan for Site 12 Explosive Ordnance Disposal Area and Former Munitions Bunker West Area	LOCATION: NAS Brunswick, ME	DATE: 5 August, 2010
RE: Drawing # _____ Title: _____ Specific Sections: <u>2.4.2</u> Title: <u>Navigational Equipment, Method, and Standards</u> Other: <u>Page 2-6: last paragraph</u>		
1. DESCRIPTION : Clarification of reacquisition of targets for intrusive investigation.		
2. REASON FOR CHANGE: The reacquisition process needed to be clarified to de-emphasize the need for pinpoint GPS accuracy. The GPS will serve as a navigational guide to position the user within meters of the previously detected target location at FMBW. Once in the vicinity of the anomaly, targets will be reacquired using a real-time detector instrument(s) to allow the operator to fix on the exact location of the previously identified anomaly. See revised attached text in revisions mode.		
3. RECOMMENDED DISPOSITION (Submit sketch, if applicable): <input checked="" type="checkbox"/> Minor Change <input type="checkbox"/> Major Change (Impacts Cost, Schedule)		
4. DISPOSITION: (Approval Required by Client Representative) <input type="checkbox"/> Not Approved (give reason). <input checked="" type="checkbox"/> Considered minor change – APPROVED per recommended disposition – Documents will not be formally revised. Field office to maintain as –built records. <input type="checkbox"/> Considered major change – Client approval required via contract modification process		
Prepared by (Signature) <i>Linda Klink (w/ input from Mark Maguire, GIS)</i>	Date: 5 August, 2010	
Tetra Tech UXO Manager (Signature) <i>Joseph B. ...</i>	Date: <i>8/5/10</i>	
Tetra Tech Project Manager (Signature) <i>Linda Klink</i>	Date: <i>8/5/10</i>	
Navy Point of Contact / Client Representative (Signature)	Date:	

2.4.2 Navigational Equipment, Method, and Standards

A Trimble GPS, or equivalent, will be used for navigational data collection, corner grid stake location, and reacquisition of SI data, including target anomalies at FMBW and anomalies at Site 12 EOD Area where needed to aid in locating proposed trenches. Refer to Appendix J-3 for GPS coordinates. Depending on the amount of interference from the tree canopy, use of other navigational systems (e.g., tape measure and compass) may be necessary to assist GPS methods in meeting project objectives. Horizontal accuracy of reacquired anomalies (FMBW Area SI targets only) will be 95 percent of anomaly locations within a ~~1-meter~~ radius of their original surface location as marked on the dig sheets generated during the SI. Under ideal conditions, this radius will be less than 1 meter but more likely between 1 and 2 meters, based on current conditions at the FMBW. Horizontally, 95 percent of all items removed during the intrusive investigation will be within a 35-centimeter radius of their reacquired surface location as marked in the field after reacquisition. Sensor data will be correlated with navigational data based on a local "third-order" monument or survey marker. These standards were established using guidance from Engineering Manual (EM) 1110-1-4009 (USACE, 2007). If suspect MEC is encountered, its location will be recorded and/or marked using a GPS, tape measure, or other grid coordinate location system.

A.5 DIG SAFE PERMITS - UTILITY CLEARANCE

Naval Air Station Brunswick, Maine
EXCAVATION CLEARANCE PERMIT

Office use only:

DIG PERMIT # 0900 54

Updated 17 June 2008

1. CLEARANCE IS REQUESTED TO PROCEED WITH WORK FOR SERVICE CALL, WORK REQUEST, OR CONTRACT NUMBER INVOLVING EXCAVATION OR UTILITY DISTURBANCE.

Environmental Survey

2. INSTRUCTION:

THE EXCAVATION CLEARANCE REQUEST IS USED FOR ANY WORK THAT MAY DISRUPT BASE UTILITY SERVICES AND PROTECTION PROVIDED BY FIRE OR INTRUSION ALARM SYSTEMS. THE EXCAVATION CLEARANCE IS PROCESSED PRIOR TO THE START OF WORK. IF DELAYS ARE ENCOUNTERED OR THE JOB SITE CONSTRUCTION CHANGES, THIS CLEARANCE MUST BE REPROCESSED.

NOTE: ANY DISCREPANCY BETWEEN THE ATTACHED DRAWING AND ACTUAL CONDITIONS MUST BE NOTED ON THE ATTACHED DRAWING AND RETURNED WITH THIS FORM TO PUBLIC WORKS FMED. CONTACT PW ENGINEERING AT 921-2621 WITHIN 24 HOURS OF EXCAVATION COMPLETION TO REPORT ALL CONDITIONS NORMAL OR ANY DISCREPANCIES.

3. ADDITIONAL INFORMATION & REQUIREMENTS:

- A: ALL KNOWN UTILITIES ARE SHOWN ON ATTACHED DRAWING
- B: HAND DIG WITHIN FIVE (5) FEET OF ESTIMATED POSITION
- C: REQUESTING PERSON(S) MUST CONTACT MECHANICAL SHOP (SHOP 42) AND ELECTRICAL SHOP (SHOP 41) TO SCHEDULE VISITS BY SHOP SUPERVISORS
- D: REQUESTING PERSON(S) MUST CONTACT STAN NOCK (921-2467) OF MECHANICAL SHOP 24 HOURS PRIOR TO EXCAVATION
- E: REQUESTING PERSON(S) MUST CONTACT DIG SAFE TO LOCATE PHONE LINES
- F: Excavation **MUST** start within 30 days of issue of this Dig Permit. Good for life of project or until 30 days of inactivity on project.

4. DATE WORK SCHEDULED

June 7 / 2010

5. REQUESTING SHOP/CONTRACTOR

TETRA TECH

6. PROJECT SUPERVISOR

7. PW FMED POC

ROBERT L. GRANT 921-2621

Robert L. Grant

8. FACILITIES MAINTENANCE MECHANICAL / ELECTRICAL SUPERVISOR

BILL BABBIN 921-2626

N/A (ON LEAVE) WEBBER checked site.

9. ASBESTOS PROGRAM MANAGER

CARLA SANDERS 921-1708

Carla Sanders

10. NATURAL RESOURCE MANAGER (Environmental)

LISA JOY 921-1720

N/A

11. INSTALLATION RESTORATION MANAGER (Environmental)

MICHAEL FAGAN 921-1717

Michael Fagan

12. GROUND ELECTRONICS MAINTENANCE DIVISION (Bldg 251, new tower)

DUTY ET 921-2593/4

N/A

12. OTHERS:

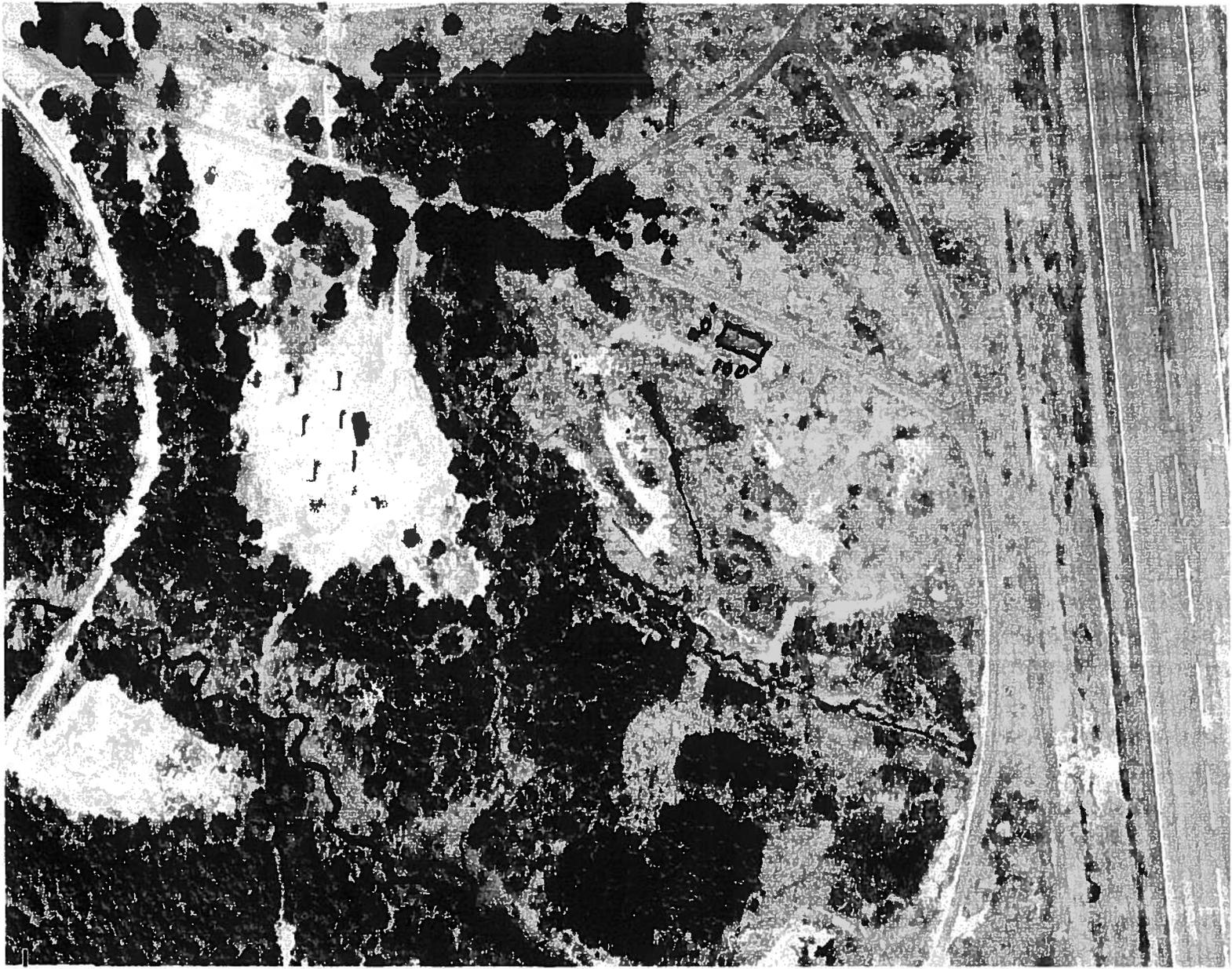
NMCI / NASB IT - All Clear

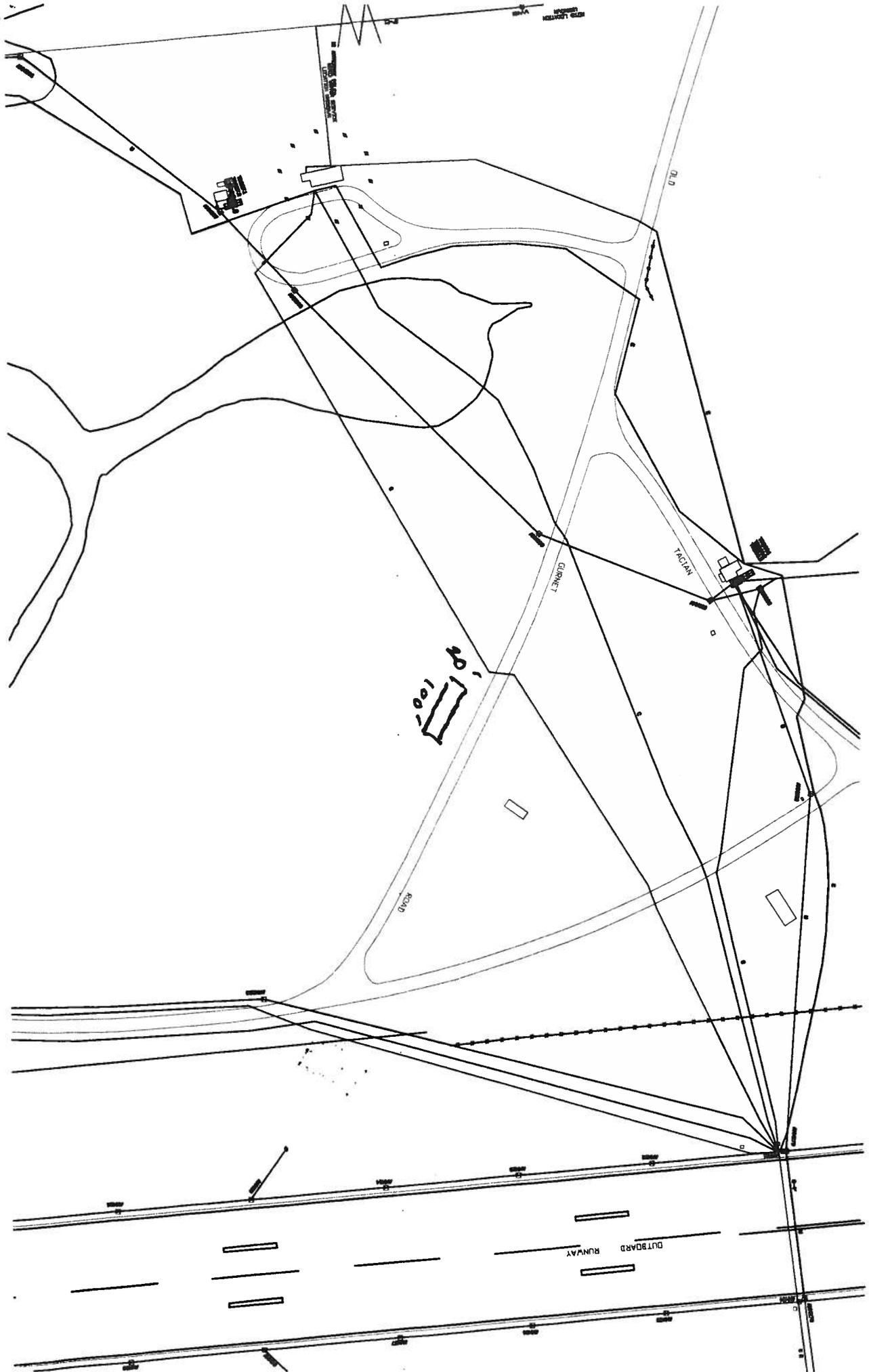
14. DIG SAFE (1-888-344-7233) CALLED? YES OR NO (CIRCLE ONE)

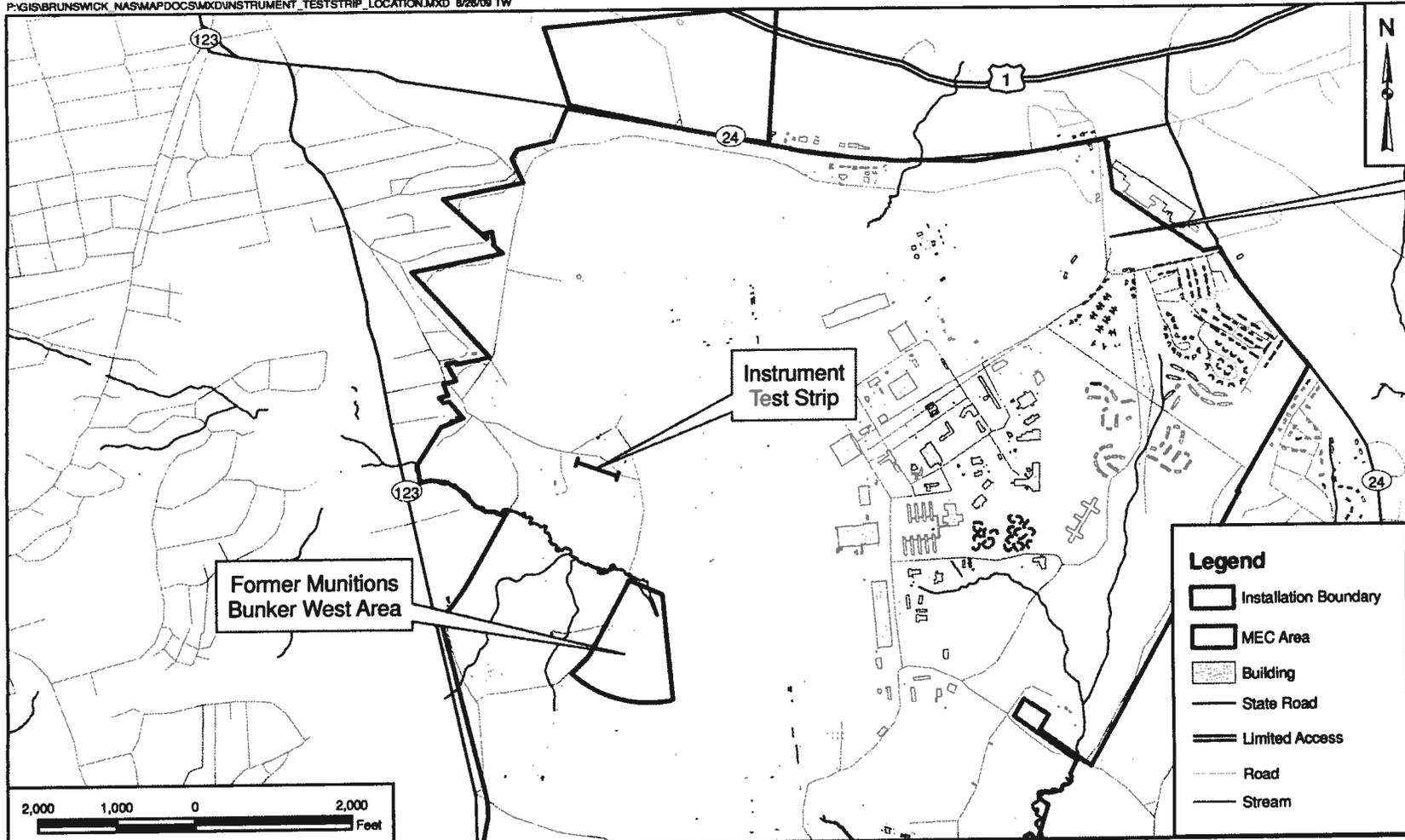
CLEARANCE DATE: June 7/10

CLEARANCE NUMBER: 2010 2210903

THE AREA BELOW IS FOR ANY OTHER SIGNATURES THAT MAY BE NEEDED DUE TO LOCATION OR NATURE OF WORK TO BE PERFORMED.







DRAWN BY	DATE
T. WHEATON	8/26/09
CHECKED BY	DATE
M. BLANKEN	6/30/09
COST/SCHEDULE AREA	
SCALE AS NOTED	

 Tetra Tech NUS, Inc.

INSTRUMENT TEST STRIP LOCATION
NAVAL AIR STATION BRUNSWICK
BRUNSWICK, MAINE

CONTRACT NUMBER CTO WE09	
APPROVED BY	DATE
APPROVED BY	DATE
FIGURE NO. FIGURE 7	REV 0

Naval Air Station Brunswick, Maine
EXCAVATION CLEARANCE PERMIT

Office use only:

DIG PERMIT # 090058

Updated 17 June 2008

1. CLEARANCE IS REQUESTED TO PROCEED WITH WORK FOR SERVICE CALL, WORK REQUEST, OR CONTRACT NUMBER INVOLVING EXCAVATION OR UTILITY DISTURBANCE.

FMBW

SOIL SAMPLING

2. INSTRUCTION:

THE EXCAVATION CLEARANCE REQUEST IS USED FOR ANY WORK THAT MAY DISRUPT BASE UTILITY SERVICES AND PROTECTION PROVIDED BY FIRE OR INTRUSION ALARM SYSTEMS. THE EXCAVATION CLEARANCE IS PROCESSED PRIOR TO THE START OF WORK. IF DELAYS ARE ENCOUNTERED OR THE JOB SITE CONSTRUCTION CHANGES, THIS CLEARANCE MUST BE REPROCESSED.

NOTE: ANY DISCREPANCY BETWEEN THE ATTACHED DRAWING AND ACTUAL CONDITIONS MUST BE NOTED ON THE ATTACHED DRAWING AND RETURNED WITH THIS FORM TO PUBLIC WORKS FMED. CONTACT PW ENGINEERING AT 921-2621 WITHIN 24 HOURS OF EXCAVATION COMPLETION TO REPORT ALL CONDITIONS NORMAL OR ANY DISCREPANCIES.

3. ADDITIONAL INFORMATION & REQUIREMENTS:

- A: ALL KNOWN UTILITIES ARE SHOWN ON ATTACHED DRAWING
- B: HAND DIG WITHIN FIVE (5) FEET OF ESTIMATED POSITION
- C: REQUESTING PERSON(S) MUST CONTACT MECHANICAL SHOP (SHOP 42) AND ELECTRICAL SHOP (SHOP 41) TO SCHEDULE VISITS BY SHOP SUPERVISORS
- D: REQUESTING PERSON(S) MUST CONTACT STAN NOCK (921-2487) OF MECHANICAL SHOP 24 HOURS PRIOR TO EXCAVATION
- E: REQUESTING PERSON(S) MUST CONTACT DIG SAFE TO LOCATE PHONE LINES
- F: Excavation MUST start within 30 days of issue of this Dig Permit. Good for life of project or until 30 days of inactivity on project.

4. DATE WORK SCHEDULED

June 16/10

5. REQUESTING SHOP/CONTRACTOR

TETRA TECH

6. PROJECT SUPERVISOR

Sid Rogers

7. PW FMED POC

ROBERT L. GRANT 921-2921

Robert L. Grant

6/25/10

8. FACILITIES MAINTENANCE MECHANICAL / ELECTRICAL SUPERVISOR

BILL BABBIN 921-2628

Stanley Nock for William DABW

6/25/10

9. ASBESTOS PROGRAM MANAGER

CARLA SANDERS 921-1708

N/A

10. NATURAL RESOURCE MANAGER (Environmental)

LISA JOY 921-1720

N/A

11. INSTALLATION RESTORATION MANAGER (Environmental)

MICHAEL FAGAN 921-1717

N/A

12. GROUND ELECTRONICS MAINTENANCE DIVISION (Bldg 251, new tower)

DUTY ET 921-2593/4

N/A

12. OTHERS:

14. DIG SAFE (1-888-344-7233) CALLED? YES OR NO (CIRCLE ONE)

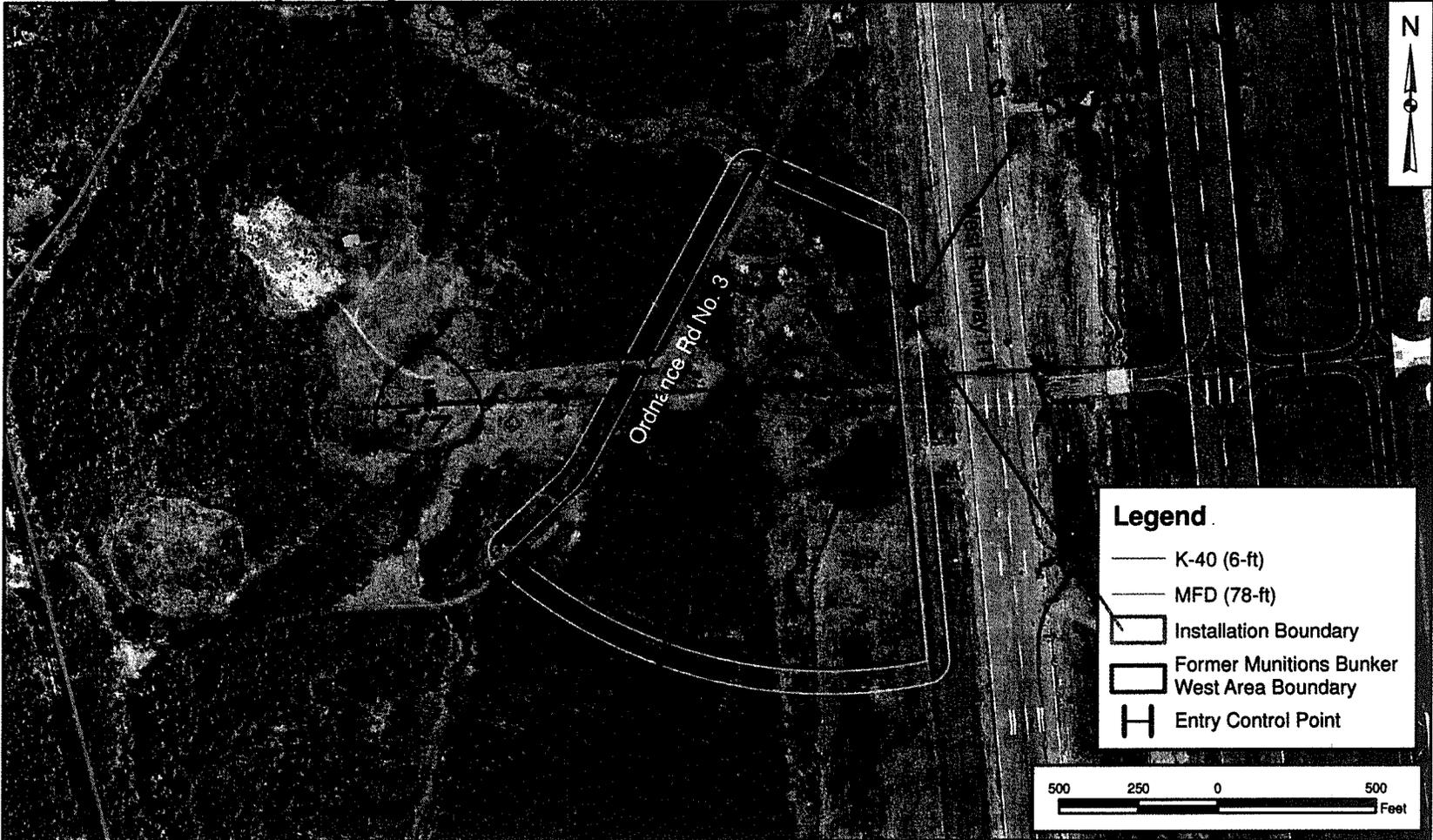
CLEARANCE DATE: June 16/10

CLEARANCE NUMBER: 2010 2410514

THE AREA BELOW IS FOR ANY OTHER SIGNATURES THAT MAY BE NEEDED DUE TO LOCATION OR NATURE OF WORK TO BE PERFORMED.

24" Deep

P:\GIS\BRUNSWICK_NAS\MAPDOCS\MXD\FORMER MUNITION BUNKER SITE.MXD 4/15/10 KM



DRAWN BY K. MOORE	DATE 01/15/07	 Tetra Tech NUS, Inc.	CONTRACT NUMBER CTO 0069	
CHECKED BY L. KLINK	DATE 4/15/10		APPROVED BY L. KLINK	DATE 4/26/10
COST/SCHEDULE AREA		FORMER MUNITIONS BUNKER WEST AREA - SITE LAYOUT NAVAL AIR STATION BRUNSWICK BRUNSWICK, MAINE	FIGURE NO. FIGURE 2	REV 0
SCALE AS NOTED				

UNDER GROUND
TO 517



COMMUNICATIONS
LINES

OUT
FALL

HIGH VOLTAGE
LINES

FENCE
LINE

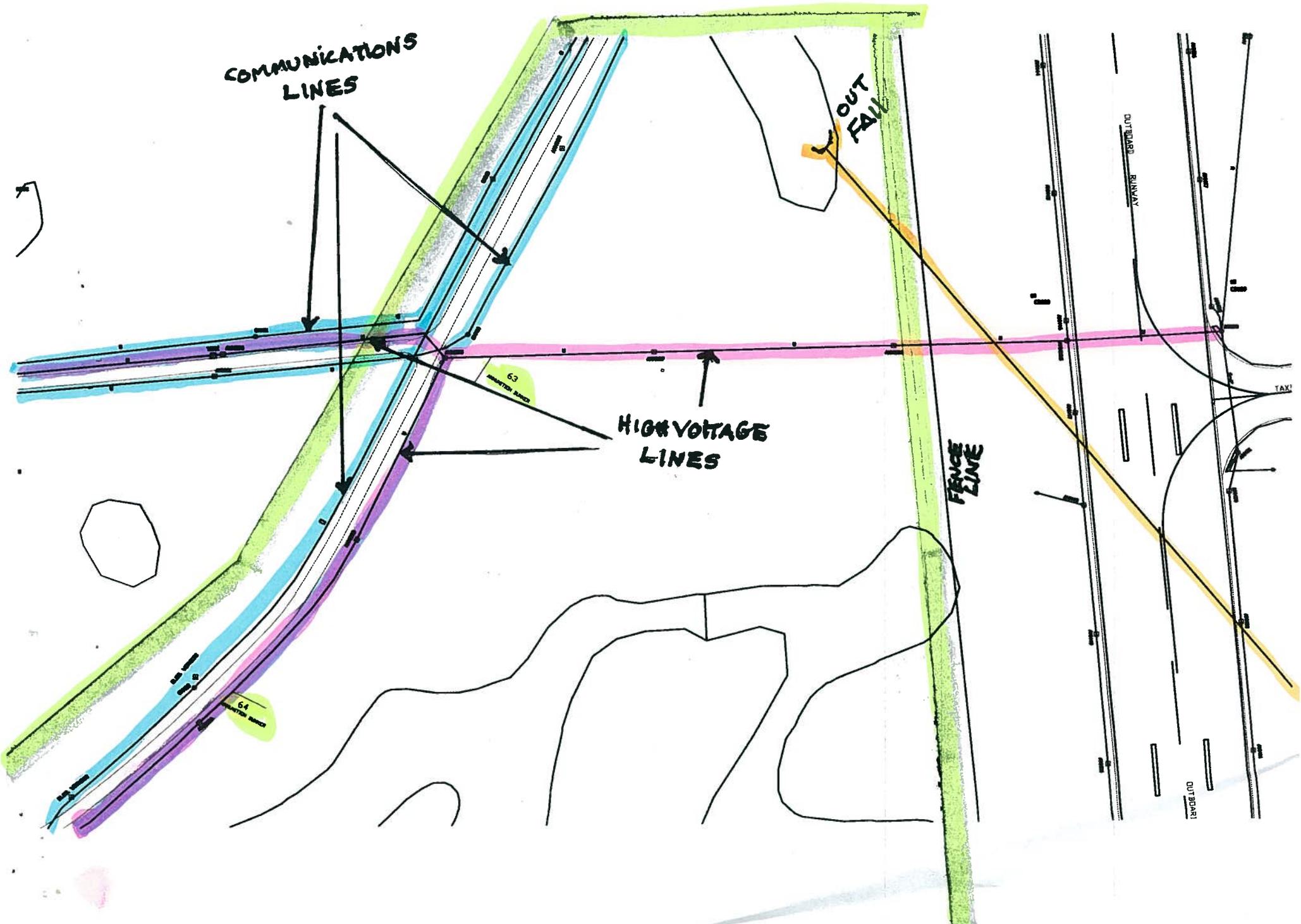
OUTBOARD
RUNWAY

TAXI

OUTBOARD

63
QUARTER BAND

64
QUARTER BAND





63
UNPAVED BUNKER

TAXIWAY

OUTBOARD
RUNWAY

1-72"
2-66"
RCP

Grant, Bob CIV NAS Brunswick, N44

From: Zrioka, Joe CTR
Sent: Thursday, June 24, 2010 12:53 PM
To: Grant, Bob CIV NAS Brunswick, N44
Cc: Comer, Richard E CIV NAS Brunswick, IT; Graham, Christopher J; Hausler, Mark
Subject: Tetra Tech Soil Samples - NMCI Fiber Impact
Signed By: joe.zrioka@nmci-isf.com

Larry, we reviewed your documents and determined there is no impact to NMCI fiber from Tetra Tech's soil sampling at the following locations:

Dig Permit # 090057, Site 12 EOD area.
Dig Permit # 090058, Former Munitions Bunker West area.

I'll leave your documents in the usual place at building 223.

JOE ZRIOKA
Regional Field Leader
NMCI - Northeast Region
HP Enterprise Services
Telephone +1 207.729.7047
Mobile +1 207.450.1417
Email joe.zrioka@nmci-isf.com
50 Ave B, Building 223 / Brunswick, Maine 04011

A.6 DIG SHEET

**DIG SHEET
 GEOPHYSICAL ANOMALIES AT FORMER MUNITIONS BUNKER WEST AREA
 NAVAL AIR STATION BRUNSWICK
 BRUNSWICK, MAINE
 PAGE 1 OF 2**

Anomaly	Easting	Northing	Anomaly	Easting	Northing
1	3011766	384296	36	3011252	384674
2	3012242	384298	37	3011878	384674
3	3012260	384304	38	3012260	384682
4	3012290	384316	39	3011912	384696
5	3011768	384318	40	3011990	384706
6	3012268	384330	41	3011264	384718
7	3011992	384332	42	3012276	384728
8	3011754	384342	43	3012256	384742
9	3012274	384360	44	3012220	384750
10	3012302	384370	45	3011216	384754
11	3011650	384374	46	3012244	384760
12	3012262	384378	47	3012214	384766
13	3011642	384382	48	3011932	384770
14	3011798	384382	49	3012246	384774
15	3011616	384388	50	3012142	384776
16	3011630	384390	51	3011280	384786
17	3012270	384390	52	3012256	384786
18	3011694	384398	53	3012266	384786
19	3011710	384418	54	3011250	384796
20	3011732	384422	55	3012248	384796
21	3012280	384430	56	3011876	384802
22	3012268	384436	57	3011268	384828
23	3012274	384444	58	3011850	384932
24	3012252	384454	59	3012210	385112
25	3011778	384460	60	3011540	385122
26	3012264	384472	61	3012206	385124
27	3012286	384492	62	3011832	385128
28	3011836	384522	63	3011532	385136
29	3012216	384536	64	3011524	385142
30	3012234	384576	65	3011574	385142
31	3011212	384624	66	3012218	385156
32	3012286	384626	67	3011538	385158
33	3011446	384632	68	3012152	385160
34	3011822	384634	69	3011676	385164
35	3012280	384668	70	3011496	385178

**DIG SHEET
 GEOPHYSICAL ANOMALIES AT FORMER MUNITIONS BUNKER WEST AREA
 NAVAL AIR STATION BRUNSWICK
 BRUNSWICK, MAINE
 PAGE 2 OF 2**

Anomaly	Easting	Northing	Anomaly	Easting	Northing
71	3011472	385180	91	3011856	385662
72	3011524	385186	92	3011840	385704
73	3012002	385214	93	3011858	385704
74	3011648	385216	94	3011842	385738
75	3011530	385222	95	3011904	385588
76	3011530	385234	96	3012308	384389
77	3011790	385248	97	3012298	384433
78	3011512	385250	98	3012302	384428
79	3011642	385250	99	3011718	384420
80	3011514	385268	100	3011755	384497
81	3011520	385276	101	3011748	384374
82	3011624	385280	102	3011702	384421
83	3012028	385286	103	3011560	385108
84	3011602	385298	104	3011459	385150
85	3011828	385408	105	3011550	385161
86	3011890	385448	106	3011717	384442
87	3011920	385482	107	3011571	384394
88	3011928	385486	108	3011725	384416
89	3011706	385564	109/110	3011298	384752
90	3011838	385572	111	3011698	385357

Coordinates in NAD83 Maine State Plane West US survey feet.

APPENDIX B

DAILY FIELD QC/SAFETY LOGS

- B.1 HASP SIGNATURE FORM**
- B.2 DAILY QC LOGS**
- B.3 DAILY INSTRUMENT IVS REPORT**
- B.4 FOLLOW-UP QC REPORT**
- B.5 DAILY SAFETY LOGS**
- B.6 TAILGATE SAFETY**
- B.7 LESSONS LEARNED**
- B.8 INITIAL PHASE INSPECTION REPORT**
- B.9 PREPARATORY PHASE INSPECTION REPORTS**

B.1 HASP SIGNATURE FORM

FIGURE 8-1

SITE-SPECIFIC TRAINING DOCUMENTATION

My signature below indicates that I am aware of the potential hazardous nature of performing Time Critical Removal Action activities at NASB, in Brunswick, Maine and that I have received site-specific training which included the elements presented below:

- Names of designated personnel and alternates responsible for site safety and health
- Safety, health, and other hazards present on site
- Use of personal protective equipment
- Work practices to minimize risks from hazards
- Medical surveillance requirements
- Signs and symptoms of overexposure
- Contents of the Health and Safety Plan
- Emergency response procedures (evacuation and assembly points)
- Spill response procedures
- Review of contents of relevant Material Safety Data Sheets
- Review of the use of the APP and Activity Hazard Analysis

I have been given the opportunity to ask questions and my questions have been answered to my satisfaction, and that the dates of my training and medical surveillance indicated below are accurate.

Name (Printed and Signature)	Site-Specific Training Date	40-Hour Training (Date)	8-Hour Refresher Training (Date)	8-Hour Supervisory Training (Date)	Medical Exam
Sid Rodgers	6/8/10	10/10/91	13 APR 2010		2/26/10
Frank Mottet	6/8/10	1/6/99	6/8/10		1/28/10
Matthew Norman Piper	6/8/10	5/15/09	6/8/10		7/28/09
MARK SOHA	5/8/10	4/21/95	6/8/10		6/17/10 6/27/08
ED ALPER	5/8/10	8/17/01	6/8/10		6/17/10 6/10/08
GLEN CHILVERS	6/8/10	2/13/93	6/8/10	6/9/05	1/22/10
A F SMITH	6/8/10	5/1/09	6/8/10		6/17/10 7/27/08
Jeff Fournier	6/8/10	SEP 96	FEB 10	April 01	June 08
FRANIS LONER	6/8/10	5/1/09	6/8/10		1/19/10
Arnold P. Burr	6/27/10				

Jacob A. Clement 7/7/10 2/23/01 7/2/10 7/1/10
J. Clement

B.2 DAILY QC LOGS



DAILY QUALITY CONTROL REPORT

Project Name: NAS Brunswick Report No: 41

Project No: 112G02063 Location: Brunswick, ME Date: 8/3/10

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

Weather: Cloudy, 30% chance of rain High Temperature: 78 Wind: S @ 5 - 10 Humidity 96%
Low Temperature: 64

I. Personnel Present (Reference/attach SUXOS's daily report if applicable)

Name	Position	Company
Syd Rodgers	SUXOS	Tetra Tech NUS
Glen Childers	Safety/QC	Tetra Tech NUS
Mark Soha	Tech III	Tetra Tech NUS
Frank Montes	Tech III	Tetra Tech NUS
Jake Clemet	Tech III	Tetra Tech NUS
Norm Piper	Tech I	Tetra Tech NUS
Frank Loney	Tech I	Tetra Tech NUS
Alfred Smith	Tech I	Tetra Tech NUS

II. Work Performed

Trenching operations, staking end points of transects in FMBW Area.

III. Quality Control Activities (Reference/attach inspection/surveillance reports):

Observed check out of Schonstedts, Whites, GPS Units, and Equipment, no discrepancies noted. Observed excavation of Trench # 12' Observed staking end points of transects in FMBW Area. No discrepancies noted. Trench # 12 completed and QC'd, No discrepancies noted. Continued on next page.

IV. Problems Encountered / Corrective Actions Taken

N/A

V. Directions Given / Received:

N/A

VI. Special Notes / Lessons Learned

N/A

VII. Visitors

None

VIII. Approval

Name and Signature: Glen Childers  Title/Company: Safety/QC, Tetra Tech Date: 8/3/10



Section III Continued:

Broadcast grass seed in areas dug up during trench excavation. Start sweeping added areas with Schonstedts and Whites. Two seed items were put out, coordinates: Seed # 1 N378319.52 E 3016762.61, Seed # 2 N 378732.51 E 3016882.30. Grids K2, L2, and L3 were completed today, one seed item was located, the other seed is in the grid to be done tomorrow.



DAILY QUALITY CONTROL REPORT

Project Name: NAS Brunswick Report No: 42

Project No: 112G02063 Location: Brunswick, ME Date: 8/4/10

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

Weather: Cloudy, 20% chance of rain High Temperature: 88 Wind: SW @ 15 Humidity 84%
Low Temperature: 70 - 25

I. Personnel Present (Reference/attach SUXOS's daily report if applicable)

Name	Position	Company
Syd Rodgers	SUXOS	Tetra Tech NUS
Glen Childers	Safety/QC	Tetra Tech NUS
Mark Soha	Tech III	Tetra Tech NUS
Frank Montes	Tech III	Tetra Tech NUS
Jake Clemet	Tech III	Tetra Tech NUS
Norm Piper	Tech I	Tetra Tech NUS
Frank Loney	Tech I	Tetra Tech NUS
Alfred Smith	Tech I	Tetra Tech NUS

II. Work Performed

Trenching operations, staking end points of transects in FMBW Area, sweeping transects with Schonstedts and Whites.

III. Quality Control Activities (Reference/attach inspection/surveillance reports):

Observed check out of Schonstedts, Whites, and GPS Unit, no discrepancies noted..Sweep Grid G1 with Schonstedts and Whites. The sweep team located a Gator Mine (MPPEH) in grid G1, Item # S12-G1-38, coordinates N 378336.43 E, 3016785.96, Photo # 167.Item left in place and will be blown tomorrow. Continued on next page.

IV. Problems Encountered / Corrective Actions Taken

N/A

V. Directions Given / Received:

N/A

VI. Special Notes / Lessons Learned

N/A

VII. Visitors

None

VIII. Approval

Name and Signature: Glen Childers  Title/Company: Safety/QC, Tetra Tech Date: 8/4/10



Section III Continued:

Grid G1 completed. The following grids were QC'd and found to be satisfactory, no discrepancies noted. The sweep team located all seed items. Moved to FMBW, completed staking transect ends and start sweeping the transects. Transects 1 and 2 were completed today.

Glen Childers completed the ITRC course quality Considerations for Munitions Resposns.



DAILY QUALITY CONTROL REPORT

Project Name: NAS Brunswick Report No: 43
 Project No: 112G02063 Location: Brunswick, ME Date: 8/5/10

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

Weather: mostly clear, 40% chance of afternoon thunderstorms High Temperature: 80 Low Temperature: 65 Wind: SSW @ 5 - 10 Humidity 97%

I. Personnel Present (Reference/attach SUXOS's daily report if applicable)

Name	Position	Company
Syd Rodgers	SUXOS	Tetra Tech NUS
Glen Childers	Safety/QC	Tetra Tech NUS
Mark Soha	Tech III	Tetra Tech NUS
Frank Montes	Tech III	Tetra Tech NUS
Jake Clemet	Tech III	Tetra Tech NUS
Norm Piper	Tech I	Tetra Tech NUS
Frank Loney	Tech I	Tetra Tech NUS
Alfred Smith	Tech I	Tetra Tech NUS

II. Work Performed

Staking end points of transects in FMBW Area, sweeping transects with Schonstedts, White and, Vallon. Demolition Operations.

III. Quality Control Activities (Reference/attach inspection/surveillance reports):

Changed IVS # 1 to comply with the ESS for FMBW, Observed check out of Schonstedts, Whites, and GPS Unit, no discrepancies noted. QC'd FMBW Transects 1 and 2, no discrepancies noted. Observed demolition operations, no discrepancies noted. Observed marking of transects and sweeping transects, no discrepancies noted.

IV. Problems Encountered / Corrective Actions Taken

N/A

V. Directions Given / Received:

N/A

VI. Special Notes / Lessons Learned

N/A

VII. Visitors

Michael Demers (NASB FD), John Wilson (NASB FD), Larry Mayer (NASB FD), and Nelson Barter (NASB FD)

VIII. Approval

Name and Signature: Glen Childers  Title/Company: Safety/QC, Tetra Tech Date: 8/5/10





DAILY QUALITY CONTROL REPORT

Project Name: NAS Brunswick Report No: 44
 Project No: 112G02063 Location: Brunswick, ME Date: 8/6/10

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

Weather: mostly clear, High Temperature: 81 Wind: W @ 10 - Humidity 100%
 Low Temperature: 64 20

I. Personnel Present (Reference/attach SUXOS's daily report if applicable)

Name	Position	Company
Syd Rodgers	SUXOS	Tetra Tech NUS
Glen Childers	Safety/QC	Tetra Tech NUS
Mark Soha	Tech III	Tetra Tech NUS
Frank Montes	Tech III	Tetra Tech NUS
Jake Clemet	Tech III	Tetra Tech NUS
Norm Piper	Tech I	Tetra Tech NUS
Frank Loney	Tech I	Tetra Tech NUS
Alfred Smith	Tech I	Tetra Tech NUS

II. Work Performed

Sweeping transects in FMBW with Schonstedts, White and, Vallon. Marking anomalies in FMBW. Sweeping of additional area of Site 12.

III. Quality Control Activities (Reference/attach inspection/surveillance reports):

Observed sweeping of transects in FMBW. QC of transects 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, and 13. All transects were found to be satisfactory, no discrepancies noted. Observed marking of anomalies in FMBW, no discrepancies noted. Observed sweeping additional area of Site 12, no discrepancies noted. QC of additional area of Site 12, satisfactory, no discrepancies noted.

IV. Problems Encountered / Corrective Actions Taken

N/A

V. Directions Given / Received:

N/A

VI. Special Notes / Lessons Learned

N/A

VII. Visitors

None

VIII. Approval

Name and Signature: Glen Childers  Title/Company: Safety/QC, Tetra Tech Date: 8/6/10





DAILY QUALITY CONTROL REPORT

Project Name: NAS Brunswick Report No: 45

Project No: 112G02063 Location: Brunswick, ME Date: 8/9/10

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

Weather: cloudy, 30% chance of rain High Temperature: 81 Wind: SSW @ 5-10 Humidity 88%
Low Temperature: 68

I. Personnel Present (Reference/attach SUXOS's daily report if applicable)

Name	Position	Company
Syd Rodgers	SUXOS	Tetra Tech NUS
Glen Childers	Safety/QC	Tetra Tech NUS
Mark Soha	Tech III	Tetra Tech NUS
Frank Montes	Tech III	Tetra Tech NUS
Jake Clemet	Tech III	Tetra Tech NUS
Norm Piper	Tech I	Tetra Tech NUS
Frank Loney	Tech I	Tetra Tech NUS
Alfred Smith	Tech I	Tetra Tech NUS

II. Work Performed

Digging anomalies in FMBW, pull stakes, flagging and pins from transects in FMBW.

III. Quality Control Activities (Reference/attach inspection/surveillance reports):

Observed instrument checkout, no discrepancies noted. Observed digging of anomalies, no discrepancies noted. The following anomalies were completed and QC'd: 107, 15, 16, 13, 11, 1, 5, 8, 101, 108, 20, 18, 102, 106, 14, 25, 100, 28, and 34. No discrepancies noted.

IV. Problems Encountered / Corrective Actions Taken

N/A

V. Directions Given / Received:

N/A

VI. Special Notes / Lessons Learned

N/A

VII. Visitors

None

VIII. Approval

Name and Signature: Glen Childers  Title/Company: Safety/QC, Tetra Tech Date: 8/9/10





DAILY QUALITY CONTROL REPORT

Project Name: NAS Brunswick Report No: 46

Project No: 112G02063 Location: Brunswick, ME Date: 8/10/10

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

Weather: mostly clear, 30% chance of afternoon thunderstorms High Temperature: 84 Low Temperature: 66 Wind: calm and variable Humidity 90%

I. Personnel Present (Reference/attach SUXOS's daily report if applicable)

Name	Position	Company
Syd Rodgers	SUXOS	Tetra Tech NUS
Glen Childers	Safety/QC	Tetra Tech NUS
Mark Soha	Tech III	Tetra Tech NUS
Frank Montes	Tech III	Tetra Tech NUS
Jake Clemet	Tech III	Tetra Tech NUS
Norm Piper	Tech I	Tetra Tech NUS
Frank Loney	Tech I	Tetra Tech NUS
Alfred Smith	Tech I	Tetra Tech NUS

II. Work Performed

Digging anomalies in FMBW.

III. Quality Control Activities (Reference/attach inspection/surveillance reports):

Observed instrument checkout, no discrepancies noted. Observed digging of anomalies, no discrepancies noted. The following anomalies had no contact and are considered complete: 2,3, 4, 6, 9, 12, 17, 96, 21, 22, 97, 98, 23, 26, 27, 29, 30, 32, 35, 38, 42, 53, and 55, The following anomalies were completed and QC'd: continued on nest page.

IV. Problems Encountered / Corrective Actions Taken

N/A

V. Directions Given / Received:

N/A

VI. Special Notes / Lessons Learned

N/A

VII. Visitors

Thomas Douglas (NAVEOD TD)

VIII. Approval

Name and Signature: Glen Childers Title/Company: Safety/QC, Tetra Tech Date: 8/10/10



Section III continued:

3, 24, 52, 81, 80, 78, 76, 75, 72, 70, 71, 104, 67, 64, 63, 105, 60, 69, 74, 79, 82, and 84. No discrepancies noted.



DAILY QUALITY CONTROL REPORT

Project Name: NAS Brunswick Report No: 47
 Project No: 112G02063 Location: Brunswick, ME Date: 8/11/10

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

Weather: Clear High Temperature: 81 Wind: NNE @ 5 Humidity 93%
 Low Temperature: 63 - 10

I. Personnel Present (Reference/attach SUXOS's daily report if applicable)

Name	Position	Company
Syd Rodgers	SUXOS	Tetra Tech NUS
Glen Childers	Safety/QC	Tetra Tech NUS
Mark Soha	Tech III	Tetra Tech NUS
Frank Montes	Tech III	Tetra Tech NUS
Jake Clemet	Tech III	Tetra Tech NUS
Norm Piper	Tech I	Tetra Tech NUS
Frank Loney	Tech I	Tetra Tech NUS
Alfred Smith	Tech I	Tetra Tech NUS

II. Work Performed

Digging anomalies in FMBW.

III. Quality Control Activities (Reference/attach inspection/surveillance reports):

Observed instrument checkout, no discrepancies noted. Observed digging of anomalies, no discrepancies noted. The following anomalies were completed: 19, 45, 65, 68, 69, 73, 74, 77, 79, 82, 83, 84, 85, 86, 87, 88, 91, 92 (no contact)and , 95, and 99. The following anomalies were completed and QC'd: continued on next page.

IV. Problems Encountered / Corrective Actions Taken

N/A

V. Directions Given / Received:

N/A

VI. Special Notes / Lessons Learned

N/A

VII. Visitors

Thomas Douglas (NAVEOD TD), Doug Murray (NOSSA)

VIII. Approval

Name and Signature: Glen Childers  Title/Company: Safety/QC, Tetra Tech Date: 8/11/10



Section III continued:

7, 31, 33, 36, 37, 39, 41, 48, 51, 54, 56, 57, 58, 59, 61, 66, 90, 93, 94, and 109. No discrepancies noted.



DAILY QUALITY CONTROL REPORT

Project Name: NAS Brunswick Report No: 48

Project No: 112G02063 Location: Brunswick, ME Date: 8/12/10

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

Weather: Clear High Temperature: 74 Wind: E @ 5 - Humidity 93%
Low Temperature: 57 10

I. Personnel Present (Reference/attach SUXOS's daily report if applicable)

Name	Position	Company
Syd Rodgers	SUXOS	Tetra Tech NUS
Glen Childers	Safety/QC	Tetra Tech NUS
Mark Soha	Tech III	Tetra Tech NUS
Frank Montes	Tech III	Tetra Tech NUS
Jake Clemet	Tech III	Tetra Tech NUS
Frank Loney	Tech I	Tetra Tech NUS
Alfred Smith	Tech I	Tetra Tech NUS

II. Work Performed

Digging anomalies in FMBW., packing up for demob

III. Quality Control Activities (Reference/attach inspection/surveillance reports):

Observed instrument checkout, no discrepancies noted. Observed digging of anomalies, no discrepancies noted. The following anomalies were no contact and considered complete: 49, 47, 43, 111, and 46. The following anomalies were completed and QC'd: 103, 62, 50, 44, 40, and 89. No Discrepancies noted. Continued on next page.

IV. Problems Encountered / Corrective Actions Taken

N/A

V. Directions Given / Received:

N/A

VI. Special Notes / Lessons Learned

N/A

VII. Visitors

Thomas Douglas (NAVEOD TD)

VIII. Approval

Name and Signature: Glen Childers  Title/Company: Safety/QC, Tetra Tech Date: 8/12/10



Section III continued:

Start clean up and packing of equipment for demob.



DAILY QUALITY CONTROL REPORT

Project Name: NAS Brunswick Report No: 49
Project No: 112G02063 Location: Brunswick, ME Date: 8/13/10

Sunday Monday Tuesday Wednesday Thursday Friday Saturday

Weather: Fog, Partly Cloudy High Temperature: 77 Wind: ESE @ 5 Humidity 94%
Low Temperature: 52 - 10

I. Personnel Present (Reference/attach SUXOS's daily report if applicable)

Name	Position	Company
Syd Rodgers	SUXOS	Tetra Tech NUS
Glen Childers	Safety/QC	Tetra Tech NUS
Mark Soha	Tech III	Tetra Tech NUS
Frank Montes	Tech III	Tetra Tech NUS
Frank Loney	Tech I	Tetra Tech NUS
Alfred Smith	Tech I	Tetra Tech NUS

II. Work Performed

Demolition, pack for demob

III. Quality Control Activities (Reference/attach inspection/surveillance reports):

Observed demolition operations, no discrepancies noted

IV. Problems Encountered / Corrective Actions Taken

N/A

V. Directions Given / Received:

N/A

VI. Special Notes / Lessons Learned

N/A

VII. Visitors

Michael R Demeo (NASB FD), Scott Lizutte (NASB FD), Nelson Barter (NASB FD), Bill Poixe (NASB FD), Michael Fagan (NASB Env)

VIII. Approval

Name and Signature: Glen Childers  Title/Company: Safety/QC, Tetra Tech Date: 8/13/10



B.3 DAILY INSTRUMENT IVS REPORT



TETRA TECH NUS, INC.

AM

DAILY INSTRUMENT **PROVE-OUT REPORT**

Project Name: BNAS Project No: 1126-02063 Location: Site 12 NS Date: 8-2-10

Sunday Monday Tuesday Wednesday Thursday Friday

I. Test Plot Information

Location:

Item Number	Inert Item/Surrogate Description	Depth (inches)	Azimuth/ Inclusion Angle(Degrees)	Comments
1				
2				
3				
4				
5				

II. Instrument Information

Instrument Type/Manufacture	Instrument Serial Number	Test Plot Items Instrument Tested on (List Item Numbers)	Setting On Instrument Tested (As Per WP)	Test Results, <input checked="" type="checkbox"/> indicates good for operation	Personnel Testing Equipment	Comments
Schmidt	07533	2,3	3	<input checked="" type="checkbox"/>	TS	
"	15345	2,3	3	<input checked="" type="checkbox"/>	F.L.	
"	07527	2,3	3	<input checked="" type="checkbox"/>	J.C	
"	14677	2,3	3	<input checked="" type="checkbox"/>	F.L	
				<input type="checkbox"/>	I	
Marble	6156-0300-042	1,2,3,4	6X0	<input checked="" type="checkbox"/>	F.L	
White	6297-0300-036	1,2,3,4	6X0	<input checked="" type="checkbox"/>	T.S	
				<input type="checkbox"/>		
				<input type="checkbox"/>		
				<input type="checkbox"/>		

III. Problems Encountered / Corrective Actions Taken.
explain in space below:

IV. Supervisor

Name and Signature: GLEN CHIDERS <i>[Signature]</i>	Title/Company: SAFETY/RC TTNUS	Date: 8/2/10
---------------------------------------------------------------	------------------------------------------	------------------------



TETRA TECH NUS, INC.

PM

DAILY INSTRUMENT **PROVE-OUT REPORT**

Project Name: BNAS Project No: 112602063 Location: site 121US Date: 8-2-10
 Sunday Monday Tuesday Wednesday Thursday Friday

I. Test Plot Information

Location:

Item Number	Inert Item/Surrogate Description	Depth (inches)	Azimuth/ Inclusion Angle(Degrees)	Comments
1				
2				
3				
4				
5				

II. Instrument Information

Instrument Type/Manufacture	Instrument Serial Number	Test Plot Items Instrument Tested on (List Item Numbers)	Setting On Instrument Tested (As Per WP)	Test Results, <input checked="" type="checkbox"/> indicates good for operation	Personnel Testing Equipment	Comments
Schensted	07533	2,3	3	<input checked="" type="checkbox"/>	FL	
"	15345	2,3	3	<input checked="" type="checkbox"/>	J.C	
"	07527	2,3	3	<input checked="" type="checkbox"/>	J.S	
"	14679	2,3	3	<input checked="" type="checkbox"/>	F.L	
				<input type="checkbox"/>		
Whites	6156-0300-042	1,2,3,4	WXO	<input checked="" type="checkbox"/>	J.C.	
Whites	6097-0300-036	1,2,3,4	WXO	<input checked="" type="checkbox"/>	J.C.	
				<input type="checkbox"/>		
				<input type="checkbox"/>		
				<input type="checkbox"/>		

III. Problems Encountered / Corrective Actions Taken.

explain in space below:

IV. Supervisor

Name and Signature: <u>GLEN CHILDERS</u>	Title/Company: <u>SAFETY/ACC TRNUS</u>	Date: <u>8/2/10</u>
----------------------------------------------------	--------------------------------------------------	-------------------------------



TETRA TECH NUS, INC.

AM / PM

DAILY INSTRUMENT	PROVE-OUT REPORT
-------------------------	-------------------------

Project Name: RNAS Project No: 1126-02063 Location: Sig 12 VS Date: 8-2-10

Sunday
 Monday
 Tuesday
 Wednesday
 Thursday
 Friday

I. Test Plot Information

Location:

Item Number	Inert Item/Surrogate Description	Depth (inches)	Azimuth/ Inclination Angle(Degrees)	Comments
1				
2				
3				
4				
5				

II. Instrument Information

Instrument Type/Manufacture	Instrument Serial Number	Test Plot Items Instrument Tested on (List Item Numbers)	Setting On Instrument Tested (As Per WP)	Test Results, <input checked="" type="checkbox"/> indicates good for operation		Personnel Testing Equipment		Comments
				AM	PM	AM	PM	
Schonstedt	07533		3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TS	JC	
"	15345		3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	JC	TS	
"	07527		3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FL	TS	
"	14677		3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TS	TS	
				<input type="checkbox"/>				
Whites	61560300-042		VXD	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	JC	JC	
Whites	1097-0360-036			<input type="checkbox"/>				
Whites	61560300-042			<input type="checkbox"/>				
Whites	1097-0360-036		VXD	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	JC	JC	
				<input type="checkbox"/>				

III. Problems Encountered / Corrective Actions Taken.

explain in space below:

IV. Supervisor

Name and Signature: <u>GLENN CHILDERS</u>	Title/Company: <u>SAFETY/RC TRUS</u>	Date: <u>8/2/10</u>
----------------------------------------------	-----------------------------------------	------------------------



TETRA TECH NUS, INC.

AM

DAILY INSTRUMENT	IVS REPORT
-------------------------	-------------------

Project Name: BNA's Project No: 12602063 Location: Sta 12 IVS Date: 8-4-10

I. Test Plot Information				
Scan Number	Inert Item/ Surrogate Description	Depth (Inches)	Azimuth/ Inclination Angle (Degrees)	Comments
1				
2				
3				
4				
5				
6				
7				
8				

II. Instrument Information						
Instrument Type/Manufacturer	Instrument Serial Number	Maximum Level (List Item Numbers)	Setting on Instrument Foot (As Per IVS)	Test Results (X indicates good for operation)	Personnel Testing Equipment	Comments
Schmidt	07533	2,3	3	<input checked="" type="checkbox"/>	MS.	
"	15345	2,3	3	<input checked="" type="checkbox"/>	J.C.	
"	07527	2,3	3	<input checked="" type="checkbox"/>	J.C.	
"	14677	2,3	3	<input checked="" type="checkbox"/>	J.C.	
White's	6156-0300-042	1,2,3,4	uxo	<input checked="" type="checkbox"/>	MS.	
White's	6097-0300-036	1,2,3,4	uxo	<input checked="" type="checkbox"/>	MS.	

III. Problems Encountered / Corrective Actions Taken / Additional Comments
 Explain here below.

Supervisor		
Name and Signature: <u>ALLEN C. HARRIS JR.</u>	Title/Company: <u>SAFETY/ I.R.C. T.N.U.S.</u>	Date: <u>8/4/10</u>



TETRA TECH NUS, INC.

PM

DAILY INSTRUMENT	IVS REPORT
-------------------------	-------------------

Project Name: BNAS	Project No: 1176-01063	Location: slc 12 IVS	Date: 8-4-10
---------------------------	-------------------------------	-----------------------------	---------------------

I. Test Plot Information				
Item Number	Inert/Item/Surrogate Description	Depth (inches)	Azimuth/Inclination Angle (Degrees)	Comments
1				
2				
3				
4				
5				
6				
7				
8				

II. Instrument Information						
Instrument Type/Manufacturer	Instrument Serial Number	See Also Item Inclusion/Count or (List Item Numbers)	Savings on Instrument (Cost) (As Per WP)	Post Receipt # indicates good for operation	Personnel Testing Equipment	Comments
Schonsbedt	07533	2,3	3	<input checked="" type="checkbox"/>	F.L.	
"	15245	2,3	3	<input checked="" type="checkbox"/>	T.S	
"	07527	2,3	3	<input checked="" type="checkbox"/>	T.S	
"	14677	2,3	3	<input checked="" type="checkbox"/>	F.L	
White's	6156-0300-042	1,2,3,4	UXO	<input checked="" type="checkbox"/>	NP	
White's	6097-0300-036	1,2,3,4	UXO	<input checked="" type="checkbox"/>		shipped out

III. Problems Encountered / Corrective Actions Taken / Additional Comments
(explain in space below)

IV. Supervisor		
Name and Signature: GLEN CHILPERS <i>[Signature]</i>	Title/Company: SUPV/BC JTUS	Date: 8/4/10



TETRA TECH NUS, INC.

ANNA

DAILY INSTRUMENT IVS REPORT

Project Name: BNAS Project No: 112602063 Location: FMBU NS 2008-5-16

Table I: Test Plot Information. Columns: Plot Number, Instrument/Storage Description, Depth (Inches), Diameter/Inclination Angle (Degrees), Comments. Rows 1-8.

Table II: Instrument Information. Columns: Instrument Type/Manufacturer, Instrument Serial Number, Instrument Maximum Depth (List Item Numbers), Settings On Instrument (As Per WP), Test Results (Indicates good for operation), Personnel Testing Equipment, Comments. Includes entries for Schousted and White's.

III. Problems Encountered / Corrective Action Taken / Additional Comments

IV. Supervisor Name and Signature: GLENN CHANDERS Title/Company: SAMPSON TETRA DATE: 4/5/10



TETRA TECH NUS, INC.

DAILY INSTRUMENT	IVS REPORT
-------------------------	-------------------

Project Name: BNAS	Project No: 112G02063	Location: FABV VS	Date: 8-6-10
---------------------------	------------------------------	--------------------------	---------------------

I. Test Plot Information				
Item Number	Inert/Blank/Surrogate Description	Depth (Inches)	Azimuth/Inclination Angle(Degrees)	Comments
1				
2				
3				
4				
5				
6				
7				
8				

II. Instrument Information								
Instrument Type/Manufacturer	Instrument Serial Number	Core Plot Hours Instrument Tested in (Last Item Numbers)	Settings on Instrument Tested (As Per W/P)	Test Results (Indicates good for operation)		Personnel Testing Equipment		Comments
				AM	PM	AM	PM	
Schonstedt	07533	1, 4	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FL	FL	
"	15345	1, 4	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TS	JC	
"	07527	1, 4	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FL	FL	
"	14277	1, 4	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TS	FL	
White's	6152-0300-042	1, 2, 3, 4	VX0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FL	JC	
Vallon White's	1091	1, 2, 3, 4	VX0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TS	JC	Head is loose

III. Problems Encountered / Corrective Actions Taken / Additional Comments <small>explain in space below</small>
Empty space for notes

IV. Supervisor		
Name and Signature: <i>GLEN CHILDERS</i>	Title/Company: <i>SARBY/BC FINUS</i>	Date: <i>7/6/10</i>



TETRA TECH NUS, INC.

DAILY INSTRUMENT	IVS REPORT
-------------------------	-------------------

Project Name: **BNAS** Project No: **112602063** Location: **FMFL** IVS Date: **8-9-10**

I. Test Plot Information				
Item Number	Item Item/Strorage Description	Depth (Inches)	Azimuth/Inclination Angle(Degrees)	Comments
1				
2				
3				
4				
5				
6				
7				
8				

II. Instrument Information								
Instrument Type/Manufacturer	Instrument Serial Number	No. of Items Instrument Tested or (Last Item Numbers)	Setting On Instrument Tested (As Per WP)	Test Results (Indicates good or operation)		Personnel Testing Equipment		Comments
				AM	PM	AM	PM	
Schonsted b	07533	1,4	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FL	NP	
"	15345	1,4	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FL	FM	
"	07527	1,4	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	MS	NP	
"	14677	1,4	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	M.S.	F.M	
White's	6156.0300.042	1,2,3,4	UXO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	T.S.	NP	
Vallon	1031	1,2,3,4	UXO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	J.C	NP	

III. Problems Encountered / Corrective Actions Taken / Additional Comments

explain space below

IV. Supervisor

Name and Signature: <i>GLEN CHILDERS</i>	Title/Company: SAFETY/QC TTNUS	Date: 8/9/10
---------------------------------------------	-----------------------------------	-----------------



TETRA TECH NUS, INC.

DAILY INSTRUMENT	IVS REPORT
-------------------------	-------------------

Project Name: BNAS **Project No:** 112602063 **Location:** FMBW NS **Date:** 8-10-10

I. Test Pit Information				
Beam Number	Inert Item/ surrogate Description	Depth (Inches)	Azimuth/ Inclination Angle (Degrees)	Comments
1				
2				
3				
4				
5				
6				
7				
8				

II. Instrument Information								
Instrument Type/Manufacturer	Instrument Serial Number	Last Beam Instrument Used on (Last Beam Numbers)	Sounding or Instrument Used (As Per WP)	Test Results		Personnel Testing Equipment		Certified
				AM	PM	AM	PM	
S. Wansted	07533	1,4	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	T.S.	T.S.	
"	15345	1,4	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F.L.	F.L.	
"	07527	1,4	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	T.S.	F.L.	
"	14677	1,4	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F.L.	T.S.	
White's	6156-0300-042	1,2,3,4	UXO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	M.S.	J.C.	
Vallon	1075	1,2,3,4	UXO	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	M.S.	J.C.	

III. Problems Encountered / Corrective Actions Taken / Additional Comments
explain in space below

IV. Supervisor

Name and Signature: GLEN CHILDRS <i>[Signature]</i>	Title/Company: SAFETY/RC TTNUS	Date: 8/10/10
---------------------------------------------------------------	------------------------------------------	-------------------------



TETRA TECH NUS, INC.

DAILY INSTRUMENT IVS REPORT

Project Name: BNAS Project No: 112602063 Location: FMBW IVS Date: 8-11-10

Table I: Test Plot Information. Columns: Item Number, Inert Item/Surrogate Description, Depth (inches), Azimuth/Inclination Angle (Degrees), Comments. Rows 1-8.

Table II: Instrument Information. Columns: Instrument Type/Manufacturer, Instrument Serial Number, Test Plots Being Instrument Tested on (List Item Numbers), Settings On Instrument Tested (As Per WP), Test Results (AM, PM), Personnel Testing Equipment (AM, PM), Comments. Includes entries for Schonstedt, white's, and Vallon.

III. Problems Encountered / Corrective Actions Taken / Additional Comments. explain in space below.

IV. Supervisor

Name and Signature: GLEN CHILDERS Title/Company: SOPER/RC TINUS Date: 8/11/10

B.4 FOLLOW-UP QC REPORT



FOLLOW-UP INSPECTION/SURVEILLANCE REPORT

Project Name: NAS Brunswick Report No: 37
 Project No: 112G02063 Location: Brunswick, ME Date: 8/3/10

I. Definable Feature of Work

- | | | |
|-----------------------------------------------------------------|-------------------------------------------------------------|------------------------------------------------------|
| <input checked="" type="checkbox"/> Mob/Site Prep/Site Security | <input type="checkbox"/> Data Processing and Interpretation | <input type="checkbox"/> |
| <input type="checkbox"/> UXO Escort/Avoidance | <input type="checkbox"/> Disposal of MEC | <input type="checkbox"/> |
| <input type="checkbox"/> Site-Specific Training/IVS Cert | <input type="checkbox"/> Non-MEC Disposal | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Detector Surface Sweep | <input type="checkbox"/> Demobilization | <input type="checkbox"/> |
| <input type="checkbox"/> Surface/Subsurface Clearance | <input type="checkbox"/> | <input checked="" type="checkbox"/> Other: Trenching |

II. Type of Inspection

- Follow-up Surveillance

II. References (DOD Inst, Corporate references, SOPs, etc.):

Work Plan, ESS

III. Activities/Conditions Observed

Observed check out of Schonstedts, Whites, GPS units and equipment.. No discrepancies noted. Start excavation of Trench # 12.. Stake out end points of transects in FMBW Area and start locating anomalies. No discrepancies noted. Trench # 12 completed and QC'd, no discrepancies noted. Grass seed put out in areas torn up during trench excavation. Start sweeping added on areas with Schonstedts and Whites. Two seed items put out, coordinates: Seed # 1 N378310.52 E 3016762.61, Seed # 2 N 378732.51 E 3016882.30. Grids K2, L2, and L3 were completed today, one seed item was located, the other seed is in the grid that will be completed tomorrow.

Conducted By: :Glen Childers Signature: *[Signature]* Date:8/3/10

X. UXOSO/QC Review

- Acceptable Unacceptable NCR #:

Comments: No discrepancies Noted

Name: Signature: Date:

XI. Distribution

- PM SUXOS UXOSO/QC UXO Program Manager Client Rep





FOLLOW-UP INSPECTION/SURVEILLANCE REPORT

Project Name: NAS Brunswick Report No: 38
 Project No: 112G02063 Location: Brunswick, ME Date: 8/4/10

I. Definable Feature of Work

- | | | |
|------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------|
| <input type="checkbox"/> Mob/Site Prep/Site Security | <input type="checkbox"/> Data Processing and Interpretation | <input type="checkbox"/> |
| <input type="checkbox"/> UXO Escort/Avoidance | <input type="checkbox"/> Disposal of MEC | <input type="checkbox"/> |
| <input type="checkbox"/> Site-Specific Training/IVS Cert | <input type="checkbox"/> Non-MEC Disposal | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Detector Surface Sweep | <input type="checkbox"/> Demobilization | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Surface/Subsurface Clearance | <input type="checkbox"/> | <input type="checkbox"/> Other: |

II. Type of Inspection

- Follow-up Surveillance

II. References (DOD Inst, Corporate references, SOPs, etc.):

Work Plan, ESS

III. Activities/Conditions Observed

Observed check out of Schonstedts, Whites, and GPS units, No discrepancies noted. Sweep grid G 1 using Schonstedts and Whites. The sweep team located a Gator Mine (MPPEH) in Grid G1, Item # S12-G1-38, coordinates N 378336.43 E 3016785.96, Photo # 167. The item was left in place and will be blown tomorrow. Grid G1 completed, grids G1, K2, L2, and L3 were QC'd and found to be satisfactory, no discrepancies noted. Move to FMBW and complete staking of transects, start sweeping transects. Transects 1 and 2 were completed.

Conducted By: :Glen Childers Signature: *[Signature]* Date: 8/4/10

X. UXOSO/QC Review

- Acceptable Unacceptable NCR #:

Comments: No discrepancies Noted

Name: Signature: Date:

XI. Distribution

- PM SUXOS UXOSO/QC UXO Program Manager Client Rep





FOLLOW-UP INSPECTION/SURVEILLANCE REPORT

Project Name: NAS Brunswick Report No: 39
 Project No: 112G02063 Location: Brunswick, ME Date: 8/5/10

I. Definable Feature of Work

- | | | |
|------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------|
| <input type="checkbox"/> Mob/Site Prep/Site Security | <input type="checkbox"/> Data Processing and Interpretation | <input type="checkbox"/> |
| <input type="checkbox"/> UXO Escort/Avoidance | <input checked="" type="checkbox"/> Disposal of MEC | <input type="checkbox"/> |
| <input type="checkbox"/> Site-Specific Training/IVS Cert | <input type="checkbox"/> Non-MEC Disposal | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Detector Surface Sweep | <input type="checkbox"/> Demobilization | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Surface/Subsurface Clearance | <input type="checkbox"/> | <input type="checkbox"/> Other: |

II. Type of Inspection

- Follow-up Surveillance

II. References (DOD Inst, Corporate references, SOPs, etc.):

Work Plan, ESS

III. Activities/Conditions Observed

Observed check out of Schonstedts, Whites, and GPS units, No discrepancies noted. Class held on use of the Vallon. Start sweeping transects in FMBW, continue marking transects in FMBW. QC transects 1 and 2, no discrepancies noted. Demolition operations to demil the Gator Mine located yesterday, The NASB Fire Department was on site for demolition operations. Demolition operations complete, no discrepancies noted. Observed marking and sweeping of transects, no discrepancies noted.

Conducted By: :Glen Childers Signature:  Date: 8/5/10

X. UXOSO/QC Review

- Acceptable Unacceptable NCR #:

Comments: No discrepancies Noted

Name: Signature: Date:

XI. Distribution

- PM SUXOS UXOSO/QC UXO Program Manager Client Rep





FOLLOW-UP INSPECTION/SURVEILLANCE REPORT

Project Name: NAS Brunswick Report No: 40
 Project No: 112G02063 Location: Brunswick, ME Date: 8/6/10

I. Definable Feature of Work

- | | | |
|------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------|
| <input type="checkbox"/> Mob/Site Prep/Site Security | <input type="checkbox"/> Data Processing and Interpretation | <input type="checkbox"/> |
| <input type="checkbox"/> UXO Escort/Avoidance | <input type="checkbox"/> Disposal of MEC | <input type="checkbox"/> |
| <input type="checkbox"/> Site-Specific Training/IVS Cert | <input type="checkbox"/> Non-MEC Disposal | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Detector Surface Sweep | <input type="checkbox"/> Demobilization | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Surface/Subsurface Clearance | <input type="checkbox"/> | <input type="checkbox"/> Other: |

II. Type of Inspection

- Follow-up Surveillance

II. References (DOD Inst, Corporate references, SOPs, etc.):

Work Plan, ESS

III. Activities/Conditions Observed

Observed check out of Schonstedts, Whites, and GPS units, No discrepancies noted. Start sweeping transects in FMBW, continue marking anomalies in FMBW. All transects in FMBW were completed today. QC'd transects 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, and 13. All transects were satisfactory, no discrepancies noted. Observed sweeping of additional area at Site 2, no discrepancies notes. QC'd the additional area after it was completed, the area was satisfactory, no discrepancies noted.

Conducted By: :Glen Childers Signature: *[Signature]* Date: 8/6/10

X. UXOSO/QC Review

- Acceptable Unacceptable NCR #:

Comments: No discrepancies Noted

Name: Signature: Date:

XI. Distribution

- PM SUXOS UXOSO/QC UXO Program Manager Client Rep



Revised May 2006



FOLLOW-UP INSPECTION/SURVEILLANCE REPORT

Project Name: NAS Brunswick Report No: 41
 Project No: 112G02063 Location: Brunswick, ME Date: 8/9/10

I. Definable Feature of Work

- | | | |
|----------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------|
| <input type="checkbox"/> Mob/Site Prep/Site Security | <input type="checkbox"/> Data Processing and Interpretation | <input type="checkbox"/> |
| <input type="checkbox"/> UXO Escort/Avoidance | <input type="checkbox"/> Disposal of MEC | <input type="checkbox"/> |
| <input type="checkbox"/> Site-Specific Training/IVS Cert | <input type="checkbox"/> Non-MEC Disposal | <input type="checkbox"/> |
| <input type="checkbox"/> Detector Surface Sweep | <input type="checkbox"/> Demobilization | <input type="checkbox"/> |
| <input type="checkbox"/> Surface/Subsurface Clearance | <input type="checkbox"/> | <input checked="" type="checkbox"/> Other: |

II. Type of Inspection

- Follow-up Surveillance

II. References (DOD Inst, Corporate references, SOPs, etc.):

Work Plan, ESS

III. Activities/Conditions Observed

Observed check out of Schonstedts, White, Fallon and GPS units, No discrepancies noted. Observed pulling stakes, pin flags and flagging tape from transects in FMBW. Observed digging anomalies in FMBW, no discrepancies noted. The following anomalies were completed and QC'd: 107, 15, 16, 13, 11, 1, 5, 8, 101, 108, 20, 18, 102, 106, 14, 25, 100, 28, and 34. No discrepancies noted

Conducted By: :Glen Childers Signature: *[Signature]* Date: 8/9/10

X. UXOSO/QC Review

- Acceptable Unacceptable NCR #:

Comments: No discrepancies Noted

Name: Signature: Date:

XI. Distribution

- PM SUXOS UXOSO/QC UXO Program Manager Client Rep



Revised May 2006



FOLLOW-UP INSPECTION/SURVEILLANCE REPORT

Project Name: NAS Brunswick Report No: 42
 Project No: 112G02063 Location: Brunswick, ME Date: 8/10/10

I. Definable Feature of Work

- | | | |
|------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------|
| <input type="checkbox"/> Mob/Site Prep/Site Security | <input type="checkbox"/> Data Processing and Interpretation | <input type="checkbox"/> |
| <input type="checkbox"/> UXO Escort/Avoidance | <input type="checkbox"/> Disposal of MEC | <input type="checkbox"/> |
| <input type="checkbox"/> Site-Specific Training/IVS Cert | <input type="checkbox"/> Non-MEC Disposal | <input type="checkbox"/> |
| <input type="checkbox"/> Detector Surface Sweep | <input type="checkbox"/> Demobilization | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Surface/Subsurface Clearance | <input type="checkbox"/> | <input checked="" type="checkbox"/> Other: |

II. Type of Inspection

- Follow-up Surveillance

II. References (DOD Inst, Corporate references, SOPs, etc.):

Work Plan, ESS

III. Activities/Conditions Observed

Observed check out of Schonstedts, White, Vallon and GPS units, No discrepancies noted. Observed digging anomalies, the following anomalies were no contact and considered complete: 2, 3, 4, 6, 9, 12, 17, 96, 21, 22, 97, 98, 23, 26, 27, 29, 30, 32, 35, 38, 42, 53, and 55. The following anomalies were completed and QC'd: 3, 24, 52, 81, 80, 78, 76, 75, 72, 70, 71, 104, 67, 64, 63, 105, 60, 69, 74, 79, 82, and 84. No discrepancies noted.

Conducted By: :Glen Childers

Signature: *[Handwritten Signature]*

Date: 8/10/10

X. UXOSO/QC Review

- Acceptable Unacceptable NCR #:

Comments: No discrepancies Noted

Name:

Signature:

Date:

XI. Distribution

- PM SUXOS UXOSO/QC UXO Program Manager Client Rep



Revised May 2006



FOLLOW-UP INSPECTION/SURVEILLANCE REPORT

Project Name: NAS Brunswick Report No: 43
 Project No: 112G02063 Location: Brunswick, ME Date: 8/11/10

I. Definable Feature of Work

- | | | |
|------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------|
| <input type="checkbox"/> Mob/Site Prep/Site Security | <input type="checkbox"/> Data Processing and Interpretation | <input type="checkbox"/> |
| <input type="checkbox"/> UXO Escort/Avoidance | <input type="checkbox"/> Disposal of MEC | <input type="checkbox"/> |
| <input type="checkbox"/> Site-Specific Training/IVS Cert | <input type="checkbox"/> Non-MEC Disposal | <input type="checkbox"/> |
| <input type="checkbox"/> Detector Surface Sweep | <input type="checkbox"/> Demobilization | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Surface/Subsurface Clearance | <input type="checkbox"/> | <input checked="" type="checkbox"/> Other: |

II. Type of Inspection

- Follow-up Surveillance

II. References (DOD Inst, Corporate references, SOPs, etc.):

Work Plan, ESS

III. Activities/Conditions Observed

Observed check out of Schonstedts, White, Vallon and GPS units, No discrepancies noted. Observed digging anomalies No discrepancies noted. The following anomalies were completed: 19, 45, 65, 68, 69, 73, 74, 77, 79, 82, 83, 84, 85, 86, 87, 88, 91, 92 (no contact), and 99. The following anomalies were completed and QC'd: 7, 31, 33, 36, 37, 39, 41, 48, 51, 54, 56, 57, 58, 59, 61, 66, 90, 93, 94 and 109.

Conducted By: Glen Childers Signature:  Date: 8/11/10

X. UXOSO/QC Review

- Acceptable Unacceptable NCR #:

Comments: No discrepancies Noted

Name: _____ Signature: _____ Date: _____

XI. Distribution

- PM SUXOS UXOSO/QC UXO Program Manager Client Rep





FOLLOW-UP INSPECTION/SURVEILLANCE REPORT

Project Name: NAS Brunswick Report No: 44
 Project No: 112G02063 Location: Brunswick, ME Date: 8/12/10

I. Definable Feature of Work

- | | | |
|------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------|
| <input type="checkbox"/> Mob/Site Prep/Site Security | <input type="checkbox"/> Data Processing and Interpretation | <input type="checkbox"/> |
| <input type="checkbox"/> UXO Escort/Avoidance | <input type="checkbox"/> Disposal of MEC | <input type="checkbox"/> |
| <input type="checkbox"/> Site-Specific Training/IVS Cert | <input type="checkbox"/> Non-MEC Disposal | <input type="checkbox"/> |
| <input type="checkbox"/> Detector Surface Sweep | <input checked="" type="checkbox"/> Demobilization | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Surface/Subsurface Clearance | <input type="checkbox"/> | <input type="checkbox"/> Other: |

II. Type of Inspection

- Follow-up Surveillance

II. References (DOD Inst, Corporate references, SOPs, etc.):

Work Plan, ESS

III. Activities/Conditions Observed

Observed check out of Schonstedts, White, Vallon and GPS units, No discrepancies noted. Observed digging anomalies No discrepancies noted. The following anomalies were no contact and are considered complete: 49, 47, 43, 111, and 46. The following anomalies were completed and QC'd: 103, 62, 50, 44, 40, and 89. No discrepancies noted.

Conducted By: :Glen Childers Signature: *[Signature]* Date: 8/12/10

X. UXOSO/QC Review

Acceptable Unacceptable NCR #:

Comments: No discrepancies Noted

Name: Signature: Date:

XI. Distribution

- PM SUXOS UXOSO/QC UXO Program Manager Client Rep





FOLLOW-UP INSPECTION/SURVEILLANCE REPORT

Project Name: NAS Brunswick Report No: 45
 Project No: 112G02063 Location: Brunswick, ME Date: 8/13/10

I. Definable Feature of Work

- | | | |
|----------------------------------------------------------|-------------------------------------------------------------|---------------------------------|
| <input type="checkbox"/> Mob/Site Prep/Site Security | <input type="checkbox"/> Data Processing and Interpretation | <input type="checkbox"/> |
| <input type="checkbox"/> UXO Escort/Avoidance | <input checked="" type="checkbox"/> Disposal of MEC | <input type="checkbox"/> |
| <input type="checkbox"/> Site-Specific Training/IVS Cert | <input type="checkbox"/> Non-MEC Disposal | <input type="checkbox"/> |
| <input type="checkbox"/> Detector Surface Sweep | <input checked="" type="checkbox"/> Demobilization | <input type="checkbox"/> |
| <input type="checkbox"/> Surface/Subsurface Clearance | <input type="checkbox"/> | <input type="checkbox"/> Other: |

II. Type of Inspection

- Follow-up Surveillance

II. References (DOD Inst, Corporate references, SOPs, etc.):

Work Plan, ESS

III. Activities/Conditions Observed

Observed demolition operations. All MPPEH was treated, six demolition shots. All demolition explosives were expended, and all MPPEH was placed in the explosive storage magazine awaiting certification to MDAS. No discrepancies noted. Continued packing for demob.

Conducted By: :Glen Childers Signature:  Date: 8/13/10

X. UXOSO/QC Review

Acceptable Unacceptable NCR #:

Comments: No discrepancies Noted

Name: Signature: Date:

XI. Distribution

- PM SUXOS UXOSO/QC UXO Program Manager Client Rep



B.5 DAILY SAFELY LOGS



DATE	8/3/10
NO.	30
SHEET	1 OF

FIELD ACTIVITY DAILY SAFETY LOG

PROJECT NAME: NAS Brunswick		PROJECT NO: 112G02063
FIELD ACTIVITY SUBJECT: Trenching operations		
<p>DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:</p> <p>0700: Daily Safety briefing, topics covered: PPE, Heat Stress, injuries/illness on site,, equipment safety, and MEC Precautions..</p> <p>0720: Check out Schonstedts, Whites, GPS Unit, and equipment..</p> <p>0800: Start excavation of Trench # 12.</p> <p>0830: Start staking out end points of transects in FMBW Area.</p> <p>1100: Trench # 12 completed and QC'd, no discrepancies noted. Start broadcasting grass seed in areas torn up during trench excavation.</p> <p>1115: Norm Piper was stung by a bee in his left ear.</p> <p>1400: Start sweeping added on areas with Schonstedts and Whites.</p> <p>1745: Grids K2, L2, and L3 were completed today.</p> <p>11750: Stop work, check out Schonstedts, Whites, and GPS Units. No discrepancies noted.</p> <p>1815: Magazine check.</p> <p>1815: End of day.</p> <p>All safety precautions were taken and proper PPE worn for the task being performed.</p>		
VISITORS ON SITE: None	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None	
WEATHER: 52 degrees, 64 degrees, winds S @ 5 – 10, humidity96%, high 78 degrees, 30% chance of rain.	IMPORTANT TELEPHONE CALLS: None	
PERSONNEL ON SITE: Syd Rodgers, Glen Childers, Mark Soha, Frank Montes, Jake Clemet, Norm Piper, Frank Loney, and Alfred Smith		
SIGNATURE: Glen Childers	DATE: 8/3/10	



DATE	8/4/10
NO.	31
SHEET	1 OF

FIELD ACTIVITY DAILY SAFETY LOG

PROJECT NAME: NAS Brunswick	PROJECT NO: 112G02063
-----------------------------	-----------------------

FIELD ACTIVITY SUBJECT: Trenching operations

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700: Daily Safety briefing, topics covered: PPE, Heat Stress, weed eater safety, and MEC Precautions. In addition Initial site safety briefing, New task Briefing, New Site Procedures and New Site Information were covered.

0720: Check out Schonstedts, Whites, and GPS Units..

0745: Start sweeping Grid G1 with Schonstedts and Whites.

0800: The sweep team located a Gator Mine (MPPEH) in Grid G1, Item #S12-G1-38, coordinates N 378336.43 E 3016785.96, Photo # 167. Item left in place and will be blown tomorrow.

0820: Grid G1 completed, move to FMBW. Complete staking out transects and start sweeping transects. Grids G1, K2, L2, and L3 QC'd and found to be satisfactory, no discrepancies noted.

1615: Transects 1 and 2 completed, stop work, check out Schonstedts, Whites and GPS Units.

1455: Magazine check.

1700: End of day.

All safety precautions were taken and proper PPE worn for the task being performed.

VISITORS ON SITE: None	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None
------------------------	-----------------------------------------------------------------------------------------------

WEATHER: 52 degrees, 70 degrees, cloudy, winds SW @ 15 – 25, Humidity 84%, high 88 degrees, 20% chance of rain.	IMPORTANT TELEPHONE CALLS: None
-----------------------------------------------------------------------------------------------------------------	---------------------------------

PERSONNEL ON SITE: Syd Rodgers, Glen Childers, Mark Soha, Frank Montes, Jake Clemet, Norm Piper, Frank Loney, and Alfred Smith

SIGNATURE: Glen Childers  DATE: 8/4/10



DATE	8/5/10
NO.	32
SHEET	1 OF

FIELD ACTIVITY DAILY SAFETY LOG

PROJECT NAME: NAS Brunswick	PROJECT NO: 112G02063
-----------------------------	-----------------------

FIELD ACTIVITY SUBJECT: laying out transects and clearing transects to 1 ft.

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700: Daily Safety briefing, topics covered: PPE, Heat Stress, communications, ticks/mosquitoes, and MEC Precautions.

0720: Check out Schonstedts, White, Vallon,, and GPS Units..

0815: Start sweeping transects in FMBW with Schonstedts, White ;and Vallan, continue marking transects and brush cutting as necessary.

0900: QC Transects 1 and 2.

1230-: Start demolitions operations, demil the gaiter mine located yesterday. NASB FD on site for demo.

1430: Demolition operations complete, no discrepancies noted.

1600: Stop work, take equipment to storage bunker.

1455: Magazine check.

1700: End of day.

All safety precautions were taken and proper PPE worn for the task being performed.

VISITORS ON SITE: Michael Demers (NASB FD), John Wilson (NASB FD), Larry Mayer (NASB FD), and Nelson Barter (NASB FD)	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None
-----------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------

WEATHER: 65 degrees, winds SSW @ 5 – 10, Humidity 97%, high 80 degrees, 40% chance of afternoon thunderstorms.	IMPORTANT TELEPHONE CALLS: None
----------------------------------------------------------------------------------------------------------------	---------------------------------

PERSONNEL ON SITE: Syd Rodgers, Glen Childers, Mark Soha, Frank Montes, Jake Clemet, Norm Piper, Frank Loney, and Alfred Smith

SIGNATURE: Glen Childers  DATE: 8/5/10



DATE	8/6/10
NO.	33
SHEET	1 OF

FIELD ACTIVITY DAILY SAFETY LOG

PROJECT NAME: NAS Brunswick	PROJECT NO: 112G02063
-----------------------------	-----------------------

FIELD ACTIVITY SUBJECT: sweeping transects in FMBW and digging contacts to 12 inches.

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0700: Daily Safety briefing, topics covered: PPE, Heat Stress, and MEC Precautions.

0720: Check out Schonstedts, White, Vallon, and GPS Units..

0815: Start sweeping transects in FMBW with Schonstedts, White, and Vallon, continue marking anomalies.

1300: All transects complete. QC of transects 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, and 13. All transects were satisfactory, no discrepancies noted.

1330: Sweep additional area of Site 12.

1430: Additional area complete, start equipment clean up. QC of additional area, area is satisfactory, no discrepancies noted.

1530: Alfred Smith informed me that he had jammed the middle finger on his left hand on a tree, he did not want to see a doctor.

1530: dig up IVS # 2

1630: stop work.

1645: Magazine check

1700: End of day.

All safety precautions were taken and proper PPE worn for the task being performed.

VISITORS ON SITE: None	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None
------------------------	-----------------------------------------------------------------------------------------------

WEATHER: 64 degrees, mostly clear, winds W @ 10 - 20, Humidity 100%, high 81 degrees.	IMPORTANT TELEPHONE CALLS: None
---------------------------------------------------------------------------------------	---------------------------------

PERSONNEL ON SITE: Syd Rodgers, Glen Childers, Mark Soha, Frank Montes, Jake Clemet, Norm Piper, Frank Loney, and Alfred Smith

SIGNATURE: Glen Childers  DATE: 8/6/10



DATE	8/9/10
NO.	34
SHEET	1 OF

FIELD ACTIVITY DAILY SAFETY LOG

PROJECT NAME: NAS Brunswick		PROJECT NO: 112G02063
FIELD ACTIVITY SUBJECT: sweeping transects in FMBW and digging contacts to 12 inches.		
<p>DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:</p> <p>0700: Daily Safety briefing, topics covered: PPE, Heat Stress, New task briefing, and MEC Precautions.</p> <p>0720: Check out Schonstedts, White, Vallon, and GPS Units.</p> <p>0745: Review work plan on reacquisition of anomalies.</p> <p>0815: Pick up stakes and flags from transects.</p> <p>0900: Start digging anomalies.</p> <p>1615: stop work, take equipment to storage bunker.</p> <p>1645: Magazine check</p> <p>1700: End of day.</p> <p>All safety precautions were taken and proper PPE worn for the task being performed.</p>		
VISITORS ON SITE: None	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None	
WEATHER: 68 degrees, cloudy, winds, SSW @ 5 – 20, humidity 88%, high 81 degrees, 30% chance of rain.,	IMPORTANT TELEPHONE CALLS: None	
PERSONNEL ON SITE: Syd Rodgers, Glen Childers, Mark Soha, Frank Montes, Jake Clemet, Norm Piper, Frank Loney, and Alfred Smith		
SIGNATURE: Glen Childers	DATE: 8/9/10	



DATE	8/10/10
NO.	35
SHEET	1 OF 1

FIELD ACTIVITY DAILY SAFETY LOG

PROJECT NAME: NAS Brunswick		PROJECT NO: 112G02063
FIELD ACTIVITY SUBJECT: Digging anomalies in FMBW.		
<p>DESCRIPTION OF DAILY ACTIVITIES AND EVENTS::</p> <p>A risk assessment was conducted for Thomas Douglas, the risk is negligible.</p> <p>0700: Daily Safety briefing, topics covered: PPE, Heat Stress, ticks, and MEC Precautions.</p> <p>0720: Check out Schonstedts, White, Vallon, and GPS Units.</p> <p>0745: Start digging anomalies. The following anomalies were no contact and considered complete: 2, 3, 4, 6, 9, 12, 17, 96, 21, 22, 97, 98, 23, 26, 27, 29, 30, 32, 35, 38, 42, 52, and 55. The following anomalies were completed and QC'd: 3, 24, 52, 81, 80, 78, 76, 75, 72, 70, 71, 104, 67, 64, 63, 105, 60, 69, 74, 79, 82, and 84. No discrepancies noted.</p> <p>1615: stop work, take equipment to storage bunker.</p> <p>1645: Magazine check</p> <p>1700: End of day.</p> <p>All safety precautions were taken and proper PPE worn for the task being performed.</p>		
VISITORS ON SITE: Thomas Douglas (NAVEOD TD)		CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None
WEATHER: 66 degrees, winds light and variable, humidity 90 %, high 84, 30% chance of afternoon thunderstorms		IMPORTANT TELEPHONE CALLS: None
PERSONNEL ON SITE: Syd Rodgers, Glen Childers, Mark Soha, Frank Montes, Jake Clemet, Norm Piper, Frank Loney, and Alfred Smith		
SIGNATURE: Glen Childers 		DATE: 8/10/10



DATE	8/11/10
NO.	35
SHEET	1 OF 1

FIELD ACTIVITY DAILY SAFETY LOG

PROJECT NAME: NAS Brunswick		PROJECT NO: 112G02063
FIELD ACTIVITY SUBJECT: Digging anomalies in FMBW.		
<p>DESCRIPTION OF DAILY ACTIVITIES AND EVENTS::</p> <p>A risk assessment was conducted for Thomas Douglas, the risk is negligible.</p> <p>0700: Daily Safety briefing, topics covered: PPE, Heat Stress, ticks, and MEC Precautions.</p> <p>0720: Check out Schonstedts, White, Vallon, and GPS Units.</p> <p>0745: Start digging anomalies. The following anomalies were no contact and considered complete: 19, 45, 65, 68, 69, 73, 74, 77, 79, 82, 83, 84, 85, 86, 87, 88, 91, 92 (no contact), 95. 99. The following anomalies were completed and QC'd: 7, 31, 33, 36, 37, 39, 41, 48, 51, 54, 56, 57, 58, 59, 61, 66, 90, 93, 94, and 109. No discrepancies noted.</p> <p>1615: stop work, take equipment to storage bunker.</p> <p>1645: Magazine check</p> <p>1700: End of day.</p> <p>All safety precautions were taken and proper PPE worn for the task being performed.</p>		
VISITORS ON SITE: Thomas Douglas (NAVEOD TD), Doug Murray (NOSSA)		CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None
WEATHER: 63 degrees, clear, winds NNE @ 5 - 10, humidity 93%, high 81 degrees.		IMPORTANT TELEPHONE CALLS: None
PERSONNEL ON SITE: Syd Rodgers, Glen Childers, Mark Soha, Frank Montes, Jake Clemet, Norm Piper, Frank Loney, and Alfred Smith		
SIGNATURE: Glen Childers		DATE: 8/11/10



DATE	8/12/10
NO.	36
SHEET	1 OF 1

FIELD ACTIVITY DAILY SAFETY LOG

PROJECT NAME: NAS Brunswick	PROJECT NO: 112G02063
-----------------------------	-----------------------

FIELD ACTIVITY SUBJECT: Digging anomalies in FMBW.

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS::

0700: Daily Safety briefing, topics covered: PPE, Heat Stress, ticks, and MEC Precautions.

0720: Check out Schonstedts, White, Vallon, and GPS Units.

0745: Start digging anomalies. The following anomalies were no contact and considered complete: 49, 47, 43, 111, and 46. The following anomalies were completed and QC'd: 103, 62, 50, 44, 40, and 89.. No discrepancies noted.

1130: GPS check, start cleaning and packing equipment for demob.

1615: stop work,

1645: Magazine check

1700: End of day.

All safety precautions were taken and proper PPE worn for the task being performed.

VISITORS ON SITE: Thomas Douglas (NAVEOD TD)	CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None
----------------------------------------------	-----------------------------------------------------------------------------------------------

WEATHER: 57 degrees, partly cloudy, winds W @ 5 – 10. Humidity 93%, high of 74 degrees.	IMPORTANT TELEPHONE CALLS: None
-----------------------------------------------------------------------------------------	---------------------------------

PERSONNEL ON SITE: Syd Rodgers, Glen Childers, Mark Soha, Frank Montes, Jake Clemet, Frank Loney, and Alfred Smith

SIGNATURE: Glen Childers 	DATE: 8/12/10
--------------------------------------------------------------------------------------------------------------	---------------



DATE	8/13/10
NO.	37
SHEET	1 OF 1

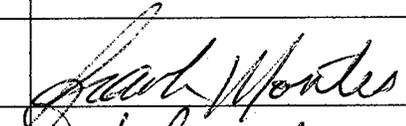
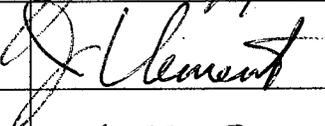
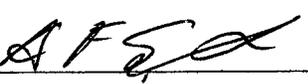
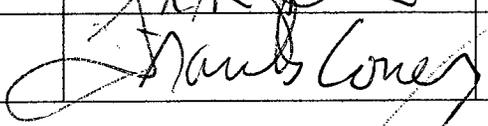
FIELD ACTIVITY DAILY SAFETY LOG

PROJECT NAME: NAS Brunswick		PROJECT NO: 112G02063
FIELD ACTIVITY SUBJECT: Digging anomalies in FMBW.		
<p>DESCRIPTION OF DAILY ACTIVITIES AND EVENTS::</p> <p>0700: Daily Safety briefing, topics covered: PPE, Heat Stress, and MEC Precautions.</p> <p>0720: Demo Safety Briefing.</p> <p>0745: Start demolition operations. 6 successful demolition shots. All demolition explosives were expended. All MPPEH material was placed in the explosive magazine awaiting certification to MDAS.</p> <p>1500: Demolition complete, continue packing for demob.</p> <p>1700: Truck arrived to pick up excavator and skid loader.</p> <p>1800: End of day.</p> <p>All safety precautions were taken and proper PPE worn for the task being performed.</p>		
VISITORS ON SITE: Larry Vmaga (NASB FD), Michael Demeo (NASB FD), Scott Lizutte (NASB FD), Nelson Barter (NASB FD), Bill Poixe (NASB FD), Michael Fagan (NASB Env)		CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS: None
WEATHER: 552 degrees, fog, partly cloudy, winds ESE @ 5 – 10, humidity 94%, high 77 degrees		IMPORTANT TELEPHONE CALLS: None
PERSONNEL ON SITE: Syd Rodgers, Glen Childers, Mark Soha, Frank Montes, Frank Loney, and Alfred Smith		
SIGNATURE: Glen Childers 		DATE: 8/13/10

B.6 TAILGATE SAFETY



TETRA TECH NUS, INC.

Project: 112G02063		Brunswick Naval Air Station	
Tailgate Safety Briefing			
Date: <u>8-02-10</u>		Location: _____	
Time: 0700		Team #: _____	
1. Reason for Briefing:			
<input checked="" type="checkbox"/>	Daily Safety Briefing		New Site Procedure
	Initial Safety Briefing		New Site Information
	New Task Briefing		Review of Site Information
	Periodic Safety Meeting		Other: (Specify)
2. Personnel Attending			
Name	Signature	Position	
Frank Montes		Tech III	
Jacob Clement		Tech III	
Tory Smith		Tech I	
Norm Piper		Tech I	
Frank Loney		Tech I	
Briefing Given By:			
Name	Signature	Position	
Mark Soha		Team Leader	

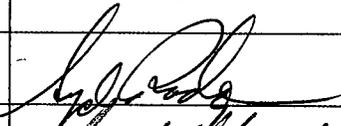
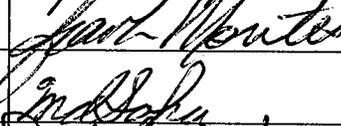
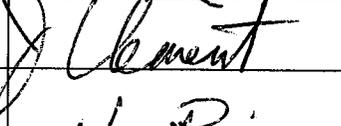
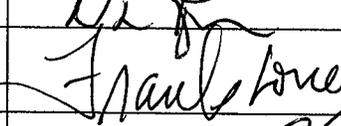
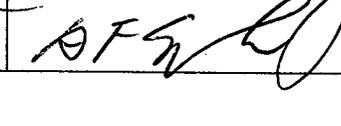
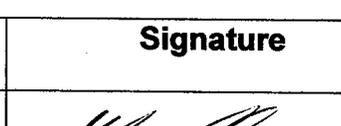


TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)			
<input checked="" type="checkbox"/>	Site Safety Personnel	<input checked="" type="checkbox"/>	Decontamination Procedures
<input checked="" type="checkbox"/>	Site/Work Area Description	<input checked="" type="checkbox"/>	Emergency Response/Equipment
<input checked="" type="checkbox"/>	Physical Hazards	<input checked="" type="checkbox"/>	On-Site Injuries/Illness
<input type="checkbox"/>	Chemical/Biological Hazards	<input checked="" type="checkbox"/>	Reporting Procedures
<input checked="" type="checkbox"/>	Heat/Cold Stress	<input checked="" type="checkbox"/>	Directions to Medical Facility
<input checked="" type="checkbox"/>	Work/Support Zones	<input type="checkbox"/>	Drug and Alcohol Policies
<input checked="" type="checkbox"/>	PPE	<input type="checkbox"/>	Medical Monitoring
<input checked="" type="checkbox"/>	Safe Work Practices	<input checked="" type="checkbox"/>	Evacuation/Egress Procedures
<input type="checkbox"/>	Air Monitoring	<input checked="" type="checkbox"/>	Communications
<input checked="" type="checkbox"/>	Task Training	<input type="checkbox"/>	Confined Spaces
<input checked="" type="checkbox"/>	OE Precautions	<input type="checkbox"/>	Other:
4. Remarks:			



TETRA TECH NUS, INC.

Project: 112G02063		
Safety Meeting Training Record		
Date: <u>8/2/10</u>		Location: NAS Brunswick, ME
Time: <u>0700</u>		Team #: <u>1</u>
1. Reason for Briefing:		
X	Daily Safety Briefing	New Site Procedure
	Initial Safety Briefing	New Site Information
	New Task Briefing	Review of Site Information
	Periodic Safety Meeting	Other: (Specify)
2. Personnel Attending		
Name	Signature	Position
Syd Rodgers		SUXSO
Frank Montes		Tech III
Mark Soha		Tech III
Jake Clement		Tech III
Norm Piper		Tech I
Frank Loney		Tech I
Alfred Smith		Tech I
Briefing Given By:		
Name	Signature	Position
Glen Childers		Safety/QC



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)			
	Site Safety Personnel		Decontamination Procedures
	Site/Work Area Description		Emergency Response/Equipment
	Physical Hazards		On-Site Injuries/Illness
	Chemical/Biological Hazards		Reporting Procedures
X	Heat/Cold Stress		Directions to Medical Facility
	Work/Support Zones		Drug and Alcohol Policies
X	PPE		Medical Monitoring
X	Safe Work Practices		Evacuation/Egress Procedures
	Air Monitoring		Communications
	Task Training		Confined Spaces
X	MEC Precautions	X	Other: Equipment Safety
4. Remarks:			
52°, CLEAR, WINDS SE 5-10, HUMIDITY 93%,			
HIGH 74 20% CHANCE OF RAIN			



TETRA TECH NUS, INC.

Project: 112G02063

Safety Meeting Training Record

Date: 8/3/10

Location: **NAS Brunswick, ME**

Time: 0700

Team #: 1

1. Reason for Briefing:

<input checked="" type="checkbox"/>	Daily Safety Briefing		New Site Procedure
	Initial Safety Briefing		New Site Information
	New Task Briefing		Review of Site Information
	Periodic Safety Meeting		Other: (Specify)

2. Personnel Attending

Name	Signature	Position
Syd Rodgers		SUXSO
Frank Montes		Tech III
Mark Soha		Tech III
Jake Clement		Tech III
Norm Piper		Tech I
Frank Loney		Tech I
Alfred Smith		Tech I

Briefing Given By:

Name	Signature	Position
Glen Childers		Safety/QC



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)			
	Site Safety Personnel		Decontamination Procedures
	Site/Work Area Description		Emergency Response/Equipment
	Physical Hazards	X	On-Site Injuries/Illness
	Chemical/Biological Hazards		Reporting Procedures
X	Heat/Cold Stress		Directions to Medical Facility
	Work/Support Zones		Drug and Alcohol Policies
X	PPE		Medical Monitoring
	Safe Work Practices		Evacuation/Egress Procedures
	Air Monitoring		Communications
	Task Training		Confined Spaces
X	MEC Precautions	X	Other: Equipment Safety
4. Remarks:			
64°, Cloudy, winds S @ 5-10, Humidity 96%,			
High 78°, 30% chance of rain			



TETRA TECH NUS, INC.

Project: 112G02063		Brunswick Naval Air Station	
Tailgate Safety Briefing			
Date: <u>8-4-10</u>		Location: _____	
Time: 0700		Team #: _____	
1. Reason for Briefing:			
<input checked="" type="checkbox"/>	Daily Safety Briefing	<input type="checkbox"/>	New Site Procedure
<input type="checkbox"/>	Initial Safety Briefing	<input type="checkbox"/>	New Site Information
<input type="checkbox"/>	New Task Briefing	<input type="checkbox"/>	Review of Site Information
<input type="checkbox"/>	Periodic Safety Meeting	<input type="checkbox"/>	Other: (Specify)
2. Personnel Attending			
Name	Signature	Position	
Frank Montes		Tech III	
Jacob Clement		Tech III	
Tory Smith		Tech I	
Norm Piper		Tech I	
Frank Loney		Tech I	
Briefing Given By:			
Name	Signature	Position	
Mark Soha		Team Leader	



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)			
	Site Safety Personnel		Decontamination Procedures
	Site/Work Area Description		Emergency Response/Equipment
	Physical Hazards		On-Site Injuries/Illness
	Chemical/Biological Hazards		Reporting Procedures
	Heat/Cold Stress		Directions to Medical Facility
	Work/Support Zones		Drug and Alcohol Policies
	PPE		Medical Monitoring
	Safe Work Practices		Evacuation/Egress Procedures
	Air Monitoring		Communications
	Task Training		Confined Spaces
	OE Precautions		Other:
4. Remarks:			



TETRA TECH NUS, INC.

Project: 112G02063

Safety Meeting Training Record

Date: 8/4/10

Location: NAS Brunswick, ME

Time: 0700

Team #: 1

1. Reason for Briefing:

<input checked="" type="checkbox"/>	Daily Safety Briefing	<input checked="" type="checkbox"/>	New Site Procedure
<input checked="" type="checkbox"/>	Initial Safety Briefing	<input checked="" type="checkbox"/>	New Site Information
<input checked="" type="checkbox"/>	New Task Briefing		Review of Site Information
	Periodic Safety Meeting		Other: (Specify)

2. Personnel Attending

Name	Signature	Position
Syd Rodgers		SUXSO
Frank Montes		Tech III
Mark Soha		Tech III
Jake Clement		Tech III
Norm Piper		Tech I
Frank Loney		Tech I
Alfred Smith		Tech I

Briefing Given By:

Name	Signature	Position
Glen Childers		Safety/QC

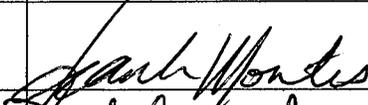
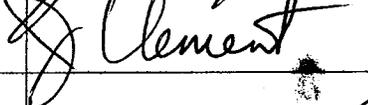
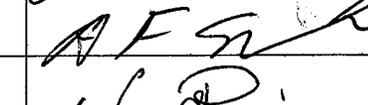
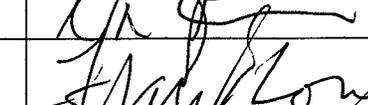
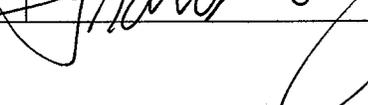


TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)			
	Site Safety Personnel		Decontamination Procedures
	Site/Work Area Description		Emergency Response/Equipment
	Physical Hazards		On-Site Injuries/Illness
	Chemical/Biological Hazards		Reporting Procedures
X	Heat/Cold Stress		Directions to Medical Facility
	Work/Support Zones		Drug and Alcohol Policies
X	PPE		Medical Monitoring
	Safe Work Practices		Evacuation/Egress Procedures
	Air Monitoring		Communications
	Task Training		Confined Spaces
X	MEC Precautions	X	Other: weed eater safety
4. Remarks:			
<i>70°, CLOUDY, WINDS SW @ 15-25, HUMIDITY 84% HIGH 88°</i>			
<i>20% CHANCE OF RAIN</i>			



TETRA TECH NUS, INC.

Project: 112G02063		Brunswick Naval Air Station	
Tailgate Safety Briefing			
Date: <u>8-5-10</u>		Location: _____	
Time: 0700		Team #: _____	
1. Reason for Briefing:			
<input checked="" type="checkbox"/>	Daily Safety Briefing		New Site Procedure
<input type="checkbox"/>	Initial Safety Briefing		New Site Information
<input type="checkbox"/>	New Task Briefing		Review of Site Information
<input type="checkbox"/>	Periodic Safety Meeting		Other: (Specify)
2. Personnel Attending			
Name	Signature	Position	
Frank Montes		Tech III	
Jacob Clement		Tech III	
Tory Smith		Tech I	
Norm Piper		Tech I	
Frank Loney		Tech I	
Briefing Given By:			
Name	Signature	Position	
Mark Soha		Team Leader	

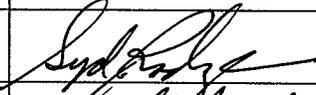
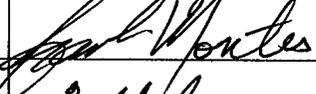
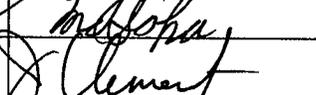
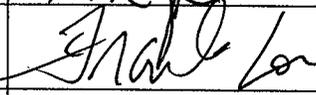


TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)			
<input checked="" type="checkbox"/>	Site Safety Personnel	<input checked="" type="checkbox"/>	Decontamination Procedures
<input checked="" type="checkbox"/>	Site/Work Area Description	<input checked="" type="checkbox"/>	Emergency Response/Equipment
<input checked="" type="checkbox"/>	Physical Hazards	<input checked="" type="checkbox"/>	On-Site Injuries/Illness
<input type="checkbox"/>	Chemical/Biological Hazards	<input checked="" type="checkbox"/>	Reporting Procedures
<input checked="" type="checkbox"/>	Heat/Cold Stress	<input checked="" type="checkbox"/>	Directions to Medical Facility
<input checked="" type="checkbox"/>	Work/Support Zones	<input type="checkbox"/>	Drug and Alcohol Policies
<input checked="" type="checkbox"/>	PPE	<input checked="" type="checkbox"/>	Medical Monitoring
<input checked="" type="checkbox"/>	Safe Work Practices	<input checked="" type="checkbox"/>	Evacuation/Egress Procedures
<input type="checkbox"/>	Air Monitoring	<input checked="" type="checkbox"/>	Communications
<input checked="" type="checkbox"/>	Task Training	<input type="checkbox"/>	Confined Spaces
<input checked="" type="checkbox"/>	OE Precautions	<input type="checkbox"/>	Other:
4. Remarks:			

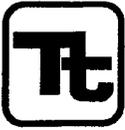


TETRA TECH NUS, INC.

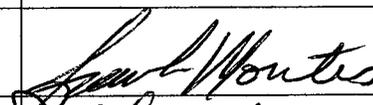
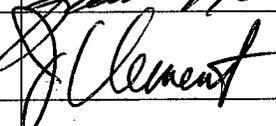
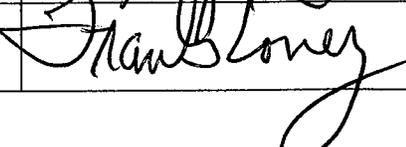
Project: 112G02063		
Safety Meeting Training Record		
Date: <u>8/5/10</u>		Location: NAS Brunswick, ME
Time: <u>0700</u>		Team #: <u>1</u>
1. Reason for Briefing:		
X	Daily Safety Briefing	New Site Procedure
	Initial Safety Briefing	New Site Information
	New Task Briefing	Review of Site Information
	Periodic Safety Meeting	Other: (Specify)
2. Personnel Attending		
Name	Signature	Position
Syd Rodgers		SUXSO
Frank Montes		Tech III
Mark Soha		Tech III
Jake Clement		Tech III
Norm Piper		Tech I
Frank Loney		Tech I
Alfred Smith		Tech I
Briefing Given By:		
Name	Signature	Position
Glen Childers		Safety/QC



3. Topics: (Check All That Apply)			
	Site Safety Personnel		Decontamination Procedures
	Site/Work Area Description		Emergency Response/Equipment
	Physical Hazards		On-Site Injuries/Illness
	Chemical/Biological Hazards		Reporting Procedures
X	Heat/Cold Stress		Directions to Medical Facility
	Work/Support Zones		Drug and Alcohol Policies
X	PPE		Medical Monitoring
	Safe Work Practices		Evacuation/Egress Procedures
	Air Monitoring	X	Communications
	Task Training		Confined Spaces
X	MEC Precautions	X	Other: ticks/mesquetos
4. Remarks:			
65°, MOSTLY CLEAR, WINDS SSW @ 5-10, HUMIDITY 97%			
HIGHT 80°, 40% CHANCE OF AFTERNOON THUNDER STORMS			



TETRA TECH NUS, INC.

Project: 112G02063		Brunswick Naval Air Station	
Tailgate Safety Briefing			
Date: <u>8/6/10</u>		Location: _____	
Time: 0700		Team #: _____	
1. Reason for Briefing:			
	Daily Safety Briefing		New Site Procedure
	Initial Safety Briefing		New Site Information
	New Task Briefing		Review of Site Information
	Periodic Safety Meeting		Other: (Specify)
2. Personnel Attending			
Name	Signature	Position	
Frank Montes		Tech III	
Jacob Clement		Tech III	
Tory Smith		Tech I	
Norm Piper		Tech I	
Frank Loney		Tech I	
Briefing Given By:			
Name	Signature	Position	
Mark Soha		Team Leader	



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)

	Site Safety Personnel		Decontamination Procedures
	Site/Work Area Description		Emergency Response/Equipment
	Physical Hazards		On-Site Injuries/Illness
	Chemical/Biological Hazards		Reporting Procedures
	Heat/Cold Stress		Directions to Medical Facility
	Work/Support Zones		Drug and Alcohol Policies
	PPE		Medical Monitoring
	Safe Work Practices		Evacuation/Egress Procedures
	Air Monitoring		Communications
	Task Training		Confined Spaces
	OE Precautions		Other:

4. Remarks:



TETRA TECH NUS, INC.

Project: 112G02063

Safety Meeting Training Record

Date: 8/6/10

Location: **NAS Brunswick, ME**

Time: 0700

Team #: 1

1. Reason for Briefing:

<input checked="" type="checkbox"/>	Daily Safety Briefing		New Site Procedure
	Initial Safety Briefing		New Site Information
	New Task Briefing		Review of Site Information
	Periodic Safety Meeting		Other: (Specify)

2. Personnel Attending

Name	Signature	Position
Syd Rodgers		SUXSO
Frank Montes		Tech III
Mark Soha		Tech III
Jake Clement		Tech III
Norm Piper		Tech I
Frank Loney		Tech I
Alfred Smith		Tech I

Briefing Given By:

Name	Signature	Position
Glen Childers		Safety/QC

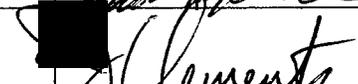
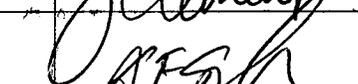
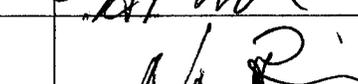
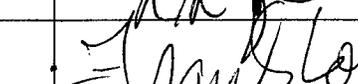
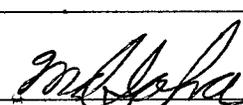


TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)		
	Site Safety Personnel	Decontamination Procedures
	Site/Work Area Description	Emergency Response/Equipment
	Physical Hazards	On-Site Injuries/Illness
	Chemical/Biological Hazards	Reporting Procedures
X	Heat/Cold Stress	Directions to Medical Facility
	Work/Support Zones	Drug and Alcohol Policies
X	PPE	Medical Monitoring
	Safe Work Practices	Evacuation/Egress Procedures
	Air Monitoring	Communications
	Task Training	Confined Spaces
X	MEC Precautions	Other:
4. Remarks:		
64° , WINDS W @ 10-20, HUMIDITY 100%, FOG		
HIGH 81°		



TETRA TECH NUS, INC.

Project: 112G02063		Brunswick Naval Air Station	
Tailgate Safety Briefing			
Date: <u>8-9-10</u>		Location: _____	
Time: 0700		Team #: _____	
1. Reason for Briefing:			
<input checked="" type="checkbox"/>	Daily Safety Briefing	<input type="checkbox"/>	New Site Procedure
<input type="checkbox"/>	Initial Safety Briefing	<input type="checkbox"/>	New Site Information
<input type="checkbox"/>	New Task Briefing	<input type="checkbox"/>	Review of Site Information
<input type="checkbox"/>	Periodic Safety Meeting	<input type="checkbox"/>	Other: (Specify)
2. Personnel Attending			
Name		Signature	Position
Frank Montes			Tech III
Jacob Clement			Tech III
Tory Smith			Tech I
Norm Piper			Tech I
Frank Loney			Tech I
Briefing Given By:			
Name		Signature	Position
Mark Soha			Team Leader



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)	
<input checked="" type="checkbox"/> Site Safety Personnel	<input checked="" type="checkbox"/> Decontamination Procedures
<input checked="" type="checkbox"/> Site/Work Area Description	<input checked="" type="checkbox"/> Emergency Response/Equipment
<input checked="" type="checkbox"/> Physical Hazards	<input checked="" type="checkbox"/> On-Site Injuries/Illness
<input type="checkbox"/> Chemical/Biological Hazards	<input checked="" type="checkbox"/> Reporting Procedures
<input checked="" type="checkbox"/> Heat/Cold Stress	<input checked="" type="checkbox"/> Directions to Medical Facility
<input checked="" type="checkbox"/> Work/Support Zones	<input type="checkbox"/> Drug and Alcohol Policies
<input checked="" type="checkbox"/> PPE	<input type="checkbox"/> Medical Monitoring
<input checked="" type="checkbox"/> Safe Work Practices	<input checked="" type="checkbox"/> Evacuation/Egress Procedures
<input type="checkbox"/> Air Monitoring	<input type="checkbox"/> Communications
<input checked="" type="checkbox"/> Task Training	<input type="checkbox"/> Confined Spaces
<input checked="" type="checkbox"/> OE Precautions	<input type="checkbox"/> Other:
4. Remarks:	



TETRA TECH NUS, INC.

Project: 112G02063

Safety Meeting Training Record

Date: 8/9/10

Location: **NAS Brunswick, ME**

Time: 0700

Team #: 1

1. Reason for Briefing:

<input checked="" type="checkbox"/>	Daily Safety Briefing		New Site Procedure
	Initial Safety Briefing		New Site Information
<input checked="" type="checkbox"/>	New Task Briefing		Review of Site Information
	Periodic Safety Meeting		Other: (Specify)

2. Personnel Attending

Name	Signature	Position
Syd Rodgers		SUXSO
Frank Montes		Tech III
Mark Soha		Tech III
Jake Clement		Tech III
Norm Piper		Tech I
Frank Loney		Tech I
Alfred Smith		Tech I

Briefing Given By:

Name	Signature	Position
Glen Childers		Safety/QC



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)

	Site Safety Personnel		Decontamination Procedures
	Site/Work Area Description		Emergency Response/Equipment
	Physical Hazards		On-Site Injuries/Illness
	Chemical/Biological Hazards		Reporting Procedures
X	Heat/Cold Stress		Directions to Medical Facility
	Work/Support Zones		Drug and Alcohol Policies
X	PPE		Medical Monitoring
	Safe Work Practices		Evacuation/Egress Procedures
	Air Monitoring		Communications
	Task Training		Confined Spaces
X	MEC Precautions		Other:

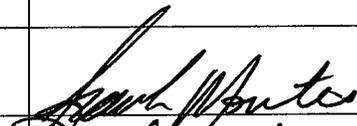
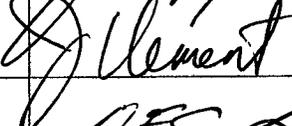
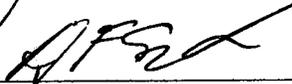
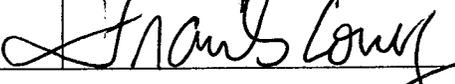
4. Remarks:

68°, CLOUDY, WINDS SSW @ 5-10, HUMIDITY 88%

HIGH 81° 30% CHANCE OF RAIN



TETRA TECH NUS, INC.

Project: 112G02063		Brunswick Naval Air Station	
Tailgate Safety Briefing			
Date: <u>8-10-10</u>		Location: _____	
Time: 0700		Team #: _____	
1. Reason for Briefing:			
<input checked="" type="checkbox"/>	Daily Safety Briefing		New Site Procedure
	Initial Safety Briefing		New Site Information
	New Task Briefing		Review of Site Information
	Periodic Safety Meeting		Other: (Specify)
2. Personnel Attending			
Name	Signature	Position	
Frank Montes		Tech III	
Jacob Clement		Tech III	
Tory Smith		Tech I	
Norm Piper		Tech I	
Frank Loney		Tech I	
Briefing Given By:			
Name	Signature	Position	
Mark Soha		Team Leader	



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)

<input checked="" type="checkbox"/>	Site Safety Personnel	<input checked="" type="checkbox"/>	Decontamination Procedures
<input checked="" type="checkbox"/>	Site/Work Area Description	<input checked="" type="checkbox"/>	Emergency Response/Equipment
<input checked="" type="checkbox"/>	Physical Hazards	<input checked="" type="checkbox"/>	On-Site Injuries/Illness
<input type="checkbox"/>	Chemical/Biological Hazards	<input checked="" type="checkbox"/>	Reporting Procedures
<input checked="" type="checkbox"/>	Heat/Cold Stress	<input checked="" type="checkbox"/>	Directions to Medical Facility
<input checked="" type="checkbox"/>	Work/Support Zones	<input type="checkbox"/>	Drug and Alcohol Policies
<input checked="" type="checkbox"/>	PPE	<input type="checkbox"/>	Medical Monitoring
<input checked="" type="checkbox"/>	Safe Work Practices	<input checked="" type="checkbox"/>	Evacuation/Egress Procedures
<input type="checkbox"/>	Air Monitoring	<input checked="" type="checkbox"/>	Communications
<input checked="" type="checkbox"/>	Task Training	<input type="checkbox"/>	Confined Spaces
<input checked="" type="checkbox"/>	OE Precautions	<input type="checkbox"/>	Other:

4. Remarks:



Project: 112G02063

Safety Meeting Training Record

Date: 8/10/10

Location: **NAS Brunswick, ME**

Time: 0700

Team #: 1

1. Reason for Briefing:

<input checked="" type="checkbox"/>	Daily Safety Briefing		New Site Procedure
<input type="checkbox"/>	Initial Safety Briefing		New Site Information
<input type="checkbox"/>	New Task Briefing		Review of Site Information
<input type="checkbox"/>	Periodic Safety Meeting		Other: (Specify)

2. Personnel Attending

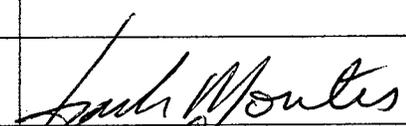
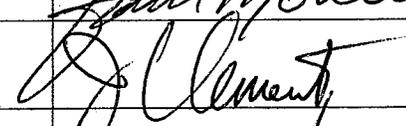
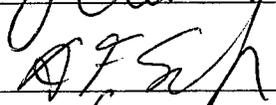
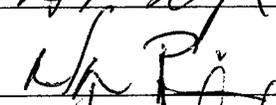
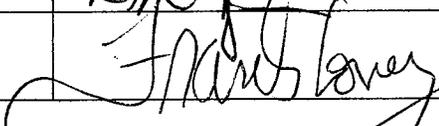
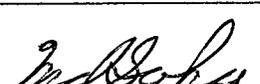
Name	Signature	Position
Syd Rodgers		SUXSO
Frank Montes		Tech III
Mark Soha		Tech III
Jake Clement		Tech III
Norm Piper		Tech I
Frank Loney		Tech I
Alfred Smith		Tech I

Briefing Given By:

Name	Signature	Position
Childers		Safety/QC



TETRA TECH NUS, INC.

Project: 112G02063		Brunswick Naval Air Station	
Tailgate Safety Briefing			
Date: <u>8-11-10</u>		Location: <u>FMSW</u>	
Time: 0700		Team #: _____	
1. Reason for Briefing:			
<input checked="" type="checkbox"/>	Daily Safety Briefing		New Site Procedure
	Initial Safety Briefing		New Site Information
	New Task Briefing		Review of Site Information
	Periodic Safety Meeting		Other: (Specify)
2. Personnel Attending			
Name	Signature	Position	
Frank Montes		Tech III	
Jacob Clement		Tech III	
Tory Smith		Tech I	
Norm Piper		Tech I	
Frank Loney		Tech I	
Briefing Given By:			
Name	Signature	Position	
Mark Soha		Team Leader	



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)			
<input checked="" type="checkbox"/>	Site Safety Personnel	<input checked="" type="checkbox"/>	Decontamination Procedures
<input checked="" type="checkbox"/>	Site/Work Area Description	<input checked="" type="checkbox"/>	Emergency Response/Equipment
<input checked="" type="checkbox"/>	Physical Hazards	<input checked="" type="checkbox"/>	On-Site Injuries/Illness
<input checked="" type="checkbox"/>	Chemical/Biological Hazards	<input checked="" type="checkbox"/>	Reporting Procedures
<input checked="" type="checkbox"/>	Heat/Cold Stress	<input checked="" type="checkbox"/>	Directions to Medical Facility
<input checked="" type="checkbox"/>	Work/Support Zones	<input type="checkbox"/>	Drug and Alcohol Policies
<input checked="" type="checkbox"/>	PPE	<input type="checkbox"/>	Medical Monitoring
<input checked="" type="checkbox"/>	Safe Work Practices	<input checked="" type="checkbox"/>	Evacuation/Egress Procedures
<input checked="" type="checkbox"/>	Air Monitoring	<input checked="" type="checkbox"/>	Communications
<input checked="" type="checkbox"/>	Task Training	<input type="checkbox"/>	Confined Spaces
<input checked="" type="checkbox"/>	OE Precautions	<input type="checkbox"/>	Other:
4. Remarks:			



Project: 112G02063		
Safety Meeting Training Record		
Date: <u>8/11/10</u>		Location: NAS Brunswick, ME
Time: <u>0700</u>		Team #: <u>1</u>
1. Reason for Briefing:		
X	Daily Safety Briefing	New Site Procedure
	Initial Safety Briefing	New Site Information
	New Task Briefing	Review of Site Information
	Periodic Safety Meeting	Other: (Specify)
2. Personnel Attending		
Name	Signature	Position
Syd Rodgers		SUXSO
Frank Montes		Tech III
Mark Soha		Tech III
Jake Clement		Tech III
Norm Piper		Tech I
Frank Loney		Tech I
Alfred Smith		Tech I
Briefing Given By:		
Name	Signature	Position
Glen Childers		Safety/QC

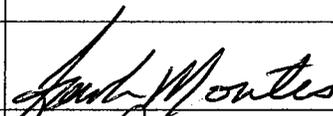
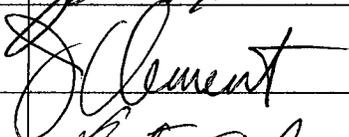


TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)			
	Site Safety Personnel		Decontamination Procedures
	Site/Work Area Description		Emergency Response/Equipment
	Physical Hazards		On-Site Injuries/Illness
	Chemical/Biological Hazards		Reporting Procedures
X	Heat/Cold Stress		Directions to Medical Facility
	Work/Support Zones		Drug and Alcohol Policies
X	PPE		Medical Monitoring
	Safe Work Practices		Evacuation/Egress Procedures
	Air Monitoring		Communications
	Task Training		Confined Spaces
X	MEC Precautions	X	Other: Ticks
4. Remarks:			
63°, WINDS NNE @ 5-10, HUMIDITY 93%, CLEAR			
HIGH 81°			



TETRA TECH NUS, INC.

Project: 112G02063		Brunswick Naval Air Station	
Tailgate Safety Briefing			
Date: <u>8-12-10</u>		Location: <u>FM3W</u>	
Time: 0700		Team #: _____	
1. Reason for Briefing:			
<input checked="" type="checkbox"/>	Daily Safety Briefing		New Site Procedure
<input type="checkbox"/>	Initial Safety Briefing		New Site Information
<input type="checkbox"/>	New Task Briefing		Review of Site Information
<input type="checkbox"/>	Periodic Safety Meeting		Other: (Specify)
2. Personnel Attending			
Name	Signature	Position	
Frank Montes		Tech III	
Jacob Clement		Tech III	
Tory Smith		Tech I	
Norm Piper		Tech I	
Frank Loney		Tech I	
Briefing Given By:			
Name	Signature	Position	
Mark Soha		Team Leader	



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)

<input checked="" type="checkbox"/>	Site Safety Personnel	<input checked="" type="checkbox"/>	Decontamination Procedures
<input checked="" type="checkbox"/>	Site/Work Area Description	<input checked="" type="checkbox"/>	Emergency Response/Equipment
<input checked="" type="checkbox"/>	Physical Hazards	<input checked="" type="checkbox"/>	On-Site Injuries/Illness
<input type="checkbox"/>	Chemical/Biological Hazards	<input type="checkbox"/>	Reporting Procedures
<input checked="" type="checkbox"/>	Heat/Cold Stress	<input checked="" type="checkbox"/>	Directions to Medical Facility
<input checked="" type="checkbox"/>	Work/Support Zones	<input type="checkbox"/>	Drug and Alcohol Policies
<input checked="" type="checkbox"/>	PPE	<input type="checkbox"/>	Medical Monitoring
<input checked="" type="checkbox"/>	Safe Work Practices	<input checked="" type="checkbox"/>	Evacuation/Egress Procedures
<input type="checkbox"/>	Air Monitoring	<input checked="" type="checkbox"/>	Communications
<input checked="" type="checkbox"/>	Task Training	<input type="checkbox"/>	Confined Spaces
<input checked="" type="checkbox"/>	OE Precautions	<input type="checkbox"/>	Other:

4. Remarks:



TETRA TECH NUS, INC.

Project: 112G02063

Safety Meeting Training Record

Date: 8/12/10

Location: NAS Brunswick, ME

Time: 0700

Team #: 1

1. Reason for Briefing:

<input checked="" type="checkbox"/>	Daily Safety Briefing		New Site Procedure
<input type="checkbox"/>	Initial Safety Briefing		New Site Information
<input type="checkbox"/>	New Task Briefing		Review of Site Information
<input type="checkbox"/>	Periodic Safety Meeting		Other: (Specify)

2. Personnel Attending

Name	Signature	Position
Syd Rodgers		SUXSO
Frank Montes		Tech III
Mark Soha		Tech III
Jake Clement		Tech III
Frank Loney		Tech I
Alfred Smith		Tech I
Thomas Douglas		NAVEOD TD

Briefing Given By:

Name	Signature	Position
Glen Childers		Safety/QC



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)			
	Site Safety Personnel		Decontamination Procedures
	Site/Work Area Description		Emergency Response/Equipment
	Physical Hazards		On-Site Injuries/Illness
	Chemical/Biological Hazards		Reporting Procedures
X	Heat/Cold Stress		Directions to Medical Facility
	Work/Support Zones		Drug and Alcohol Policies
X	PPE		Medical Monitoring
	Safe Work Practices		Evacuation/Egress Procedures
	Air Monitoring		Communications
	Task Training		Confined Spaces
X	MEC Precautions		Other:
4. Remarks:			
<i>57° , PARTLY CLOUDY, WINDS E@ 5-10, HUMIDITY 93%,</i>			
<i>NIGHT 74°</i>			



TETRA TECH NUS, INC.

Project: 112G02063

Brunswick Naval Air Station

Tailgate Safety Briefing

Date: 8-13-10

Location: BNAS

Time: 0700

Team #: _____

1. Reason for Briefing:

<input checked="" type="checkbox"/>	Daily Safety Briefing	<input type="checkbox"/>	New Site Procedure
<input type="checkbox"/>	Initial Safety Briefing	<input type="checkbox"/>	New Site Information
<input type="checkbox"/>	New Task Briefing	<input type="checkbox"/>	Review of Site Information
<input type="checkbox"/>	Periodic Safety Meeting	<input type="checkbox"/>	Other: (Specify)

2. Personnel Attending

Name	Signature	Position
Frank Montes		Tech III
Jacob Clement		Tech III
Tory Smith		Tech I
Norm Piper		Tech I
Frank Loney		Tech I
Briefing Given By:		
Name	Signature	Position
Mark Soha		Team Leader

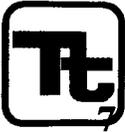


TETRA TECH NUS, INC.

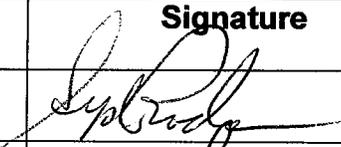
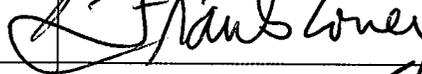
3. Topics: (Check All That Apply)

<input checked="" type="checkbox"/>	Site Safety Personnel	<input checked="" type="checkbox"/>	Decontamination Procedures
<input checked="" type="checkbox"/>	Site/Work Area Description	<input checked="" type="checkbox"/>	Emergency Response/Equipment
<input checked="" type="checkbox"/>	Physical Hazards	<input checked="" type="checkbox"/>	On-Site Injuries/Illness
<input checked="" type="checkbox"/>	Chemical/Biological Hazards	<input checked="" type="checkbox"/>	Reporting Procedures
<input checked="" type="checkbox"/>	Heat/Cold Stress	<input checked="" type="checkbox"/>	Directions to Medical Facility
<input checked="" type="checkbox"/>	Work/Support Zones		Drug and Alcohol Policies
<input checked="" type="checkbox"/>	PPE		Medical Monitoring
<input checked="" type="checkbox"/>	Safe Work Practices	<input checked="" type="checkbox"/>	Evacuation/Egress Procedures
<input checked="" type="checkbox"/>	Air Monitoring	<input checked="" type="checkbox"/>	Communications
<input checked="" type="checkbox"/>	Task Training		Confined Spaces
<input checked="" type="checkbox"/>	OE Precautions		Other:

4. Remarks:



TETRA TECH NUS, INC.

Project: 112G02063		
Safety Meeting Training Record		
Date: <u>8/13/10</u>		Location: NAS Brunswick
Time: <u>0710</u>		Team #: <u>1</u>
1. Reason for Briefing:		
	Daily Safety Briefing	New Site Procedure
	Initial Safety Briefing	New Site Information
	New Task Briefing	Review of Site Information
	Periodic Safety Meeting	Other: (Specify) Demolition
	X	
2. Personnel Attending		
Name	Signature	Position
Syd Rodgers		SUXSO
Glen Childers		Safety/QC
Frank Montes		Tech III
Frank Loney		Tech I
Alfred Smith		Tech I
Briefing Given By:		
Name	Signature	Position
Mark Soha		Tech III



TETRA TECH NUS, INC.

Project: 112G02063		
Safety Meeting Training Record		
Date: <u>8/13/10</u>		Location: NAS Brunswick, ME
Time: <u>0700</u>		Team #: <u>1</u>
1. Reason for Briefing:		
X	Daily Safety Briefing	New Site Procedure
	Initial Safety Briefing	New Site Information
	New Task Briefing	Review of Site Information
	Periodic Safety Meeting	Other: (Specify)
2. Personnel Attending		
Name	Signature	Position
Syd Rodgers		SUXSO
Frank Montes		Tech III
Mark Soha		Tech III
Frank Loney		Tech I
Alfred Smith		Tech I
Briefing Given By:		
Name	Signature	Position
Glen Childers		Safety/QC



TETRA TECH NUS, INC.

3. Topics: (Check All That Apply)			
	Site Safety Personnel		Decontamination Procedures
	Site/Work Area Description		Emergency Response/Equipment
	Physical Hazards		On-Site Injuries/Illness
	Chemical/Biological Hazards		Reporting Procedures
X	Heat/Cold Stress		Directions to Medical Facility
	Work/Support Zones		Drug and Alcohol Policies
X	PPE		Medical Monitoring
	Safe Work Practices		Evacuation/Egress Procedures
	Air Monitoring		Communications
	Task Training		Confined Spaces
X	MEC Precautions		Other:
4. Remarks:			
52°, FOG, PARTLY CLOUDY, WINDS ESE @ 5-10,			
HUMIDITY 94%, HIGH 77			

B.7 LESSONS LEARNED



LESSONS LEARNED REPORT FORM

Client:		Project Number: 112G02063
Project: NAS Brunswick		Location: Brunswick, ME
Type Of Project: MEC		
I. TOPIC		
Fire		
II. DESCRIPTION (Narrative of relevant events, problem, impact)		
Demolition shot started a grass fire, approximately 1/4 acre burned.		
III. LESSON(S) LEARNED (e.g. Project Specific, Location Specific, Company-wide):		
Project Specific		
IV. RECOMMENDED FUTURE ACTION (e.g., Revise Project Procedures, Company Procedures, Additional Training):		
Have the Fire Department stand by during demo operations and suggest they wet-down the area before demo operations.		
V. EVALUATION BY DEPARTMENT HEAD (e.g., Support Recommendation, Alternate Recommendation):		
VI. List supporting data/ references (if applicable)		
Reference/ Supporting Data:		Location:
VII. <input type="checkbox"/> PM	<input type="checkbox"/> QCM	<input checked="" type="checkbox"/> UXO Program Manager
Name (Signature)	Name (Signature)	Name (Signature) <i>Ralph Brooks</i>
Date	Date	Date <i>6/22/10</i>
<input type="checkbox"/> Accepted <input type="checkbox"/> Rejected <input type="checkbox"/> Accepted with Comments Comments:	<input type="checkbox"/> Accepted <input type="checkbox"/> Rejected <input type="checkbox"/> Accepted with Comments Comments:	<input checked="" type="checkbox"/> Accepted <input type="checkbox"/> Rejected <input type="checkbox"/> Accepted with Comments Comments:
VIII. Forward Approved Lessons Learned Report to Program Manager		
Name (Signature)	Date	<input type="checkbox"/> Accepted <input type="checkbox"/> Rejected <input type="checkbox"/> Accepted with Comments Comments:

B.8 INITIAL PHASE INSPECTION REPORT



INITIAL PHASE INSPECTION REPORT

Project Name: NAS Brunswick Report No: 11

Project No: 112G02063 Location: Brunswick, ME Date: 8/5/10

I. Definable Feature of Work

- | | | |
|------------------------------------------------------------------|-------------------------------------------------------------|---------------------------------|
| <input checked="" type="checkbox"/> Mob/Site Prep/Site Security | <input type="checkbox"/> Data Processing and Interpretation | <input type="checkbox"/> |
| <input type="checkbox"/> UXO Escort/Avoidance | <input type="checkbox"/> Disposal of MEC | <input type="checkbox"/> |
| <input type="checkbox"/> Site-Specific Training/IVS Cert | <input type="checkbox"/> Non-MAC Disposal | <input type="checkbox"/> |
| <input type="checkbox"/> Detector Surface Sweep | <input type="checkbox"/> Demobilization | <input type="checkbox"/> |
| <input checked="" type="checkbox"/> Surface/Subsurface Clearance | <input type="checkbox"/> | <input type="checkbox"/> Other: |

II. References (DOD Inst, Corporate references, SOPs, etc.):

Work Plan, SOP 05

III. Personnel Present (employees performing the work) Attach supplemental sheet if necessary

Name	Position	Company
Syd Rodgers	SUXOS	Tetra Tech NUS
Glen Childers	Safety/QC	Tetra Tech NUS
Frank Montes	Tech III	Tetra Tech NUS
Mark Soha	Tech III	Tetra Tech NUS
Jake Clemet	Tech III	Tetra Tech NUS
Norm Piper	Tech I	Tetra Tech NUS
Frank Loney	Tech I	Tetra Tech NUS
Alfred Smith	Tech I	Tetra Tech NUS

IV. Preparatory Work (equipment set up & testing, EZ set up, logbook entries, etc.)

Is preliminary work complete and correct? Yes No

V. Task Execution

Is work being completed in accordance with plans and specifications? Yes No

If No, what corrective action(s) will be taken?

Is workmanship acceptable? Yes No

If No, what action(s) will be taken?

V. Resolve Differences



INITIAL PHASE INSPECTION REPORT

Project Name: NAS Brunswick Report No: 11
Project No: 112G02063 Location: Brunswick, ME Date: 8/5/10

Comments:

VI. Safety (Review work conditions using HASP and AHAs)

Comments: *All personnel were wearing appropriate PPE for task being performed and following the work plan and SOP.*

VII. Results of Inspection

Acceptable Unacceptable NCR #:
Name: Glen Childers Signature: *[Signature]* Date: 8/5/10

QC Manager Comments

QC Manager Review

Concur Non-Concur Signature: _____ Date: _____

VIII. Distribution

PM UXO Project MGR UXOS/QC SUXOS CLIENT REP



Revised May 2006



INITIAL PHASE INSPECTION REPORT

Project Name: NAS Brunswick Report No: 12
 Project No: 112G02063 Location: Brunswick, ME Date: 8/9/10

I. Definable Feature of Work

- | | | |
|----------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------|
| <input type="checkbox"/> Mob/Site Prep/Site Security | <input type="checkbox"/> Data Processing and Interpretation | <input type="checkbox"/> |
| <input type="checkbox"/> UXO Escort/Avoidance | <input type="checkbox"/> Disposal of MEC | <input type="checkbox"/> |
| <input type="checkbox"/> Site-Specific Training/IVS Cert | <input type="checkbox"/> Non-MAC Disposal | <input type="checkbox"/> |
| <input type="checkbox"/> Detector Surface Sweep | <input type="checkbox"/> Demobilization | <input type="checkbox"/> |
| <input type="checkbox"/> Surface/Subsurface Clearance | <input type="checkbox"/> | <input checked="" type="checkbox"/> Other: Digging Anomalies |

II. References (DOD Inst, Corporate references, SOPs, etc.):

Work Plan, SOP 05

III. Personnel Present (employees performing the work) Attach supplemental sheet if necessary

Name	Position	Company
Syd Rodgers	SUXOS	Tetra Tech NUS
Glen Childers	Safety/QC	Tetra Tech NUS
Frank Montes	Tech III	Tetra Tech NUS
Mark Soha	Tech III	Tetra Tech NUS
Jake Clomet	Tech III	Tetra Tech NUS
Norm Piper	Tech I	Tetra Tech NUS
Frank Loney	Tech I	Tetra Tech NUS
Alfred Smith	Tech I	Tetra Tech NUS

IV. Preparatory Work (equipment set up & testing, EZ set up, logbook entries, etc.)

is preliminary work complete and correct? Yes No

V. Task Execution

Is work being completed in accordance with plans and specifications? Yes No

If No, what corrective action(s) will be taken?

Is workmanship acceptable? Yes No

If No, what action(s) will be taken?

V. Resolve Differences



INITIAL PHASE INSPECTION REPORT

Project Name: NAS Brunswick Report No: 12
Project No: 112G02063 Location: Brunswick, ME Date: 8/9/10

Comments:

VI. Safety (Review work conditions using HASP and AHAs)

Comments: *All personnel were wearing appropriate PPE for task being performed and following the work plan.*

VII. Results of Inspection

Acceptable Unacceptable NCR #:
Name: Glen Childers Signature: *[Signature]* Date: 8/9/10

QC Manager Comments

QC Manager Review

Concur Non-Concur Signature: Date

VIII. Distribution

PM UXO Project MGR UXOS/QC SUXOS CLIENT REP



Revised May 2006



INITIAL PHASE INSPECTION REPORT

Project Name: NAS Brunswick Report No: 13

Project No: 112G02063 Location: Brunswick, ME Date: 8/12/10

I. Definable Feature of Work

- | | | |
|----------------------------------------------------------|-------------------------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> Mob/Site Prep/Site Security | <input type="checkbox"/> Data Processing and Interpretation | <input type="checkbox"/> |
| <input type="checkbox"/> UXO Escort/Avoidance | <input type="checkbox"/> Disposal of MEC | <input type="checkbox"/> |
| <input type="checkbox"/> Site-Specific Training/IVS Cert | <input type="checkbox"/> Non-MAC Disposal | <input type="checkbox"/> |
| <input type="checkbox"/> Detector Surface Sweep | <input checked="" type="checkbox"/> Demobilization | <input type="checkbox"/> |
| <input type="checkbox"/> Surface/Subsurface Clearance | <input type="checkbox"/> | <input type="checkbox"/> Other: Digging Anomalies |

II. References (DOD Inst, Corporate references, SOPs, etc.):

Work Plan, SOP 05

III. Personnel Present (employees performing the work) Attach supplemental sheet if necessary

Name	Position	Company
Syd Rodgers	SUXOS	Tetra Tech NUS
Glen Childers	Safety/QC	Tetra Tech NUS
Frank Montes	Tech III	Tetra Tech NUS
Mark Soha	Tech III	Tetra Tech NUS
Jake Clemet	Tech III	Tetra Tech NUS
Frank Loney	Tech I	Tetra Tech NUS
Alfred Smith	Tech I	Tetra Tech NUS

IV. Preparatory Work (equipment set up & testing, EZ set up, logbook entries, etc.)

Is preliminary work complete and correct? Demo and equipment turn in not complete Yes No

V. Task Execution

Is work being completed in accordance with plans and specifications? Yes No

If No, what corrective action(s) will be taken?

Is workmanship acceptable? Yes No

If No, what action(s) will be taken?

V. Resolve Differences



INITIAL PHASE INSPECTION REPORT

Project Name: NAS Brunswick Report No: 13

Project No: 112G02063 Location: Brunswick, ME Date: 8/12/10

Comments:

VI. Safety (Review work conditions using HASP and AHAs)

Comments: *All personnel were wearing appropriate PPE for task being performed and following the work plan.*

VII. Results of Inspection

Acceptable Unacceptable NCR #:

Name: Glen Childers Signature: _____ Date: 8/12/10

QC Manager Comments

QC Manager Review

Concur Non-Concur Signature: _____ Date: _____

VIII. Distribution

PM UXO Project MGR UXOS/QC SUXOS CLIENT REP



Revised May 2006

B.9 PREPARATORY PHASE INSPECTION REPORTS



PREPARATORY PHASE INSPECTION REPORT

Project Name: NAS Brunswick Project No: 112G02063 Report No: 2
UXO Team: #1 Location: Brunswick, ME Date: 8/4/10

I. Definable Feature of Work

- | | | |
|------------------------------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------|
| <input type="checkbox"/> Project Management | <input checked="" type="checkbox"/> Field Data Entry | <input type="checkbox"/> Data Management |
| <input type="checkbox"/> Excavation Observation/Operations | <input type="checkbox"/> UXO Escort/ Avoidance Operations | <input type="checkbox"/> MEC Visual Survey/Certification Operation |
| <input type="checkbox"/> MPPEH Processing/ Certification | <input type="checkbox"/> MEC Transfer to EOD | <input type="checkbox"/> Equipment Management/ Checks |
| <input checked="" type="checkbox"/> Safety Meetings | <input type="checkbox"/> Mobilization/Demobilization | <input checked="" type="checkbox"/> Acceptance Sampling |
| <input type="checkbox"/> Documentation Control | <input checked="" type="checkbox"/> Document Review | <input type="checkbox"/> Other: |

II. References (DOD Inst. , Corporate references, SOPs, etc.):

Work plan, OI's

III. Personnel Present (employees performing the work) Attach supplemental sheet if necessary

Name	Position	Company
Syd Rodgers	SUXOS	Tetra Tech NUS
Glen Childers	Safety/QC	Tetra Tech NUS
Mark Soha	Tech III	Tetra Tech NUS
Frank Montes	Tech III	Tetra Tech NUS
Jake Clemet	Tech III	Tetra Tech NUS
Norm Piper	Tech I	Tetra Tech NUS

IV. Submittals Reviewed (Work Plan, EHSP, Permits, etc.)

Submittals Reviewed.	Item No.	Date	Approval Authority

Have all submittals been approved? Yes No

If No, what items have not been submitted/ approved?

Are all submittals on hand? Yes No

If No, what items are missing?

Check approved submittals against delivered material. (This should be done as material arrives.)

Comments:

V. Resources (Personnel & Equipment)

Are adequate resources on hand to effectively conduct work? Yes No

If No, what action will be taken?

VI. Procedures (Project Manger should be involved in this stage of the inspection)

Review contract specifications. (List special requirements such as location accuracy, format for deliverables, etc.)



PREPARATORY PHASE INSPECTION REPORT

Project Name: NAS Brunswick Project No: 112G02063 Report No: 2
 UXO Team: #1 Location: Brunswick, ME Date: 8/4/10

Discuss procedure for accomplishing the work (Reference WP Section or SOP).

Clarify any differences (revisions needed).

VII. Resolve Differences (What did you do to resolve outstanding issues/problems)

Comments:

VIII. Testing/ Surveillance

Identify Tests/ Surveillance to be performed, frequency, and by whom. The team will check instruments to be used that day.

Where will the testing to take place (in the test bed, at a selected monument, etc.)? magnetometers will be checked at IVS # 1, GPS units will be checked against known 3rd order monuments or survey markers in the FMBW.

Is the Testing/ Surveillance Plan Adequate? Yes

IX. Safety

Review applicable portion of the Health and Safety Plan.

Has the Activity Hazard Analysis been approved? Yes No

X. Results of Inspection

Acceptable Unacceptable NCR #:

Name: Glen Childers Signature: _____ Date: 8/4/10

QCM Comments

QCM Review

Concur Non-Concur Signature: _____ Date

XI. Distribution

PM UXO Project MGR UXOSO/QC SUXOS CLIENT REP



Section III Continued:

Frank Loney

Tech I

Tetra Tech NUS

Alfred Smith

Tech I

Tetra Tech NUS

APPENDIX C

PHOTOGRAPHS OF SITE ACTIVITIES



Photograph #1: Instrument Verification Strip #1, Item #1, 1 inch Steel Pipe, 7 inches deep.



Photograph #2: Instrument Verification Strip #1, Item #2, 2 inch Aluminum Pipe, 14 inches deep.



Photograph #3: Instrument Verification Strip #1, Item #3, 1 inch Aluminum Pipe, 7 inches deep.



Photograph #4: Instrument Verification Strip #1, Item #4, 2 inch Steel Pipe, 14 inches deep.



Photograph #-5: Instrument Verification Strip #1, Overview of area.



Photograph #-6: : Instrument Verification Strip #2, Item #1, 1 inch Aluminum Pipe, 7 inches deep.



Photograph #7: Instrument Verification Strip #2, Item #2, 2 inch Steel Pipe, 14 inches deep.



Photograph #8: Instrument Verification Strip #2, Item #3, 1 inch Steel Pipe, 7 inches deep.



Photograph #9: Instrument Verification Strip #2, Item #4, 2 inch Aluminum Pipe, 14 inches deep.