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FINAL EXPANDED SITE INVESTIGATION REPORT MILITARY MUNITIONS RESPONSE PROGRAM (MMRP) SITE UXO-21 (ASR 2.204) FORMER D-AREA GAS CHAMBER (2D MAR DIV) MCB CAMP LEJEUNE NC

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CH2M HILL

Final

Expanded Site Investigation Report
Military Munitions Response Program Site UXO-21 (ASR 2.204) - Former D-Area Gas Chamber (2D MAR DIV)

Marine Corps Base Camp Lejeune
Jacksonville, North Carolina

Contract Task Order WE41

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Prepared by

CH2MHILL

Knoxville, Tennessee

NORTH CAROLINA LICENSED SEAL 2129 GEOLOGIST KEVIN MATTHEW LOUTH 2/28/12

Executive Summary

This report documents the findings of the Expanded Site Investigation (SI) at United States Marine Corps Military Munitions Response Program (MMRP) Site Unexploded Ordnance (UXO) -21 – Former D-Area Gas Chamber (Second Marine Division [2D MAR DIV]) (Archive Search Report [ASR] Area #2.204) conducted by CH2M HILL under the Naval Facilities Engineering Command Comprehensive Long-Term Environmental Action—Navy (CLEAN) Contract N62470-08-D-1000, Contract Task Order (CTO) WE41.

Site UXO-21 encompasses the location of the former D-Area Gas Chamber. The site is approximately 17 acres in size and is located within the active installation of Marine Corps Base Camp Lejeune (MCB CamLej), west of Sneads Ferry Road and south of Lyman Road. The area surrounding Site UXO-21 is primarily woodlands and fields.

The purpose of the Site UXO-21 Expanded SI was to address the recommendations included in the Preliminary Assessment/Site Inspection (PA/SI) Report, part of the MCB CamLej investigation of closed ranges. The objective of the Site UXO-21 Expanded SI was to assess the nature of geophysical anomalies identified as representing potential munitions and explosives of concern (MEC) in the Site UXO-21 PA/SI report.

Environmental Investigations

A PA/SI was conducted between 2007 and 2010 at Site UXO-21 to evaluate potential contamination of environmental media. The PA/SI was completed in two phases and included the sampling of surface soil, subsurface soil, surface water, sediment, and groundwater within Site UXO-21 for potential munitions constituents (MC) contamination. In total, 40 surface soil, 10 subsurface soil, 13 groundwater, and 6 sediment and surface water samples were collected within Site UXO-21.

The human health risk screening indicated that constituents detected in the soil, groundwater, surface water, and sediment at Site UXO-21 are not expected to pose an unacceptable risk to potential human or ecological receptors.

MEC Investigation

As part of the PA/SI, geophysical surveys were conducted within Site UXO-21 to assess the potential presence of subsurface MEC. A total of 569 subsurface anomalies were identified as representing potential subsurface MEC during the Phase I investigation (all accessible areas of the interior 5 acres). These identified geophysical anomalies were then excavated. Results included two MEC/material potentially presenting an explosive hazard (MPPEH) items, a M22A1 Ground Illumination Signal, and a M27A1B1 Projectile Air Burst Simulator. Also, 34 other MPPEH items were found.

During the Phase II geophysical survey, 738 anomalies representing potential subsurface MEC were identified within the 1.06 acres of surveyed transects (approximately 11 percent of the Phase II area). The highest concentrations of anomalies were identified near Sneads Ferry Road and along the unpaved service road crossing the southwestern portion of the site.

The Expanded SI intrusive investigation of the Phase II geophysical anomalies was conducted in August 2011. One MEC item, a Signal, Ground, Cluster, Red Star, M52A1 was found and blow-in-place (BIP) procedures were conducted on this item.

A total of 48 MPPEH items were found at 27 different locations during the intrusive investigations, as follows:

- (1) Signal, Ground, Cluster, Red Star, M52A1 (MEC)
- (1) 3.5-inch rocket motor (M28 or M29)
- (7) Signal, Ground, Green Star, Cluster, M20A1
- (1) Mk II, Hand, Practice

- (3) M19 Illumination Rifle Grenade
- (1) Hand, Smoke AN-M8
- (12) Expended cartridge cases of various calibers, small arms (33 items total)
- (1) Grenade spoon

One MPPEH item, the 3.5-inch rocket motor, was detonated in the same location as the MEC item. Post-detonation soil samples collected and analyzed for perchlorates, explosives residues, and metals showed no contamination. However, the MPPEH items found are inconsistent with activities expected at a former Gas Chamber and indicate previously unidentified range activities were conducted in the area.

Recommendations

The geophysical survey and intrusive investigation were completed throughout all accessible portions of the Phase I investigation area; therefore, no further investigation is recommended for the Phase I investigation area. If MILCON is planned in the Phase II area, 100% intrusive investigation is recommended.

Additional DGM and intrusive investigation are recommended to define the extent of MEC/MPPEH beyond the northwestern, western, and southwestern boundaries of Site UXO-21. DGM and intrusive investigation are also recommended to evaluate the nature and extent of possible MEC/MPPEH in the portion of UXO-21 that lies east of Sneads Ferry Road.

No further action is recommended for the investigation of environmental contamination in site media at this time. However, this decision should be re-evaluated based on the results of further investigations for MEC/MPPEH.

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Acronyms and Abbreviations

µg/kg	micrograms per kilogram
µg/L	micrograms per liter
2D MAR DIV	Second Marine Division
ASR	Archive Search Report
Baker	Baker Environmental, Inc.
BBG	Base background
bgs	below ground surface
BIP	blow-in-place
CamLej	Camp Lejeune
CLEAN	Comprehensive Long-Term Environmental Action—Navy
CN	chloroacetophenone
CS	o-chlorobenzylidenemalonitrile
CTO	Contract Task Order
DGM	digital geophysical mapping
DO	dissolved oxygen
DPT	direct-push technology
EM61	EM61-MK2 electromagnetic system
EOD	Explosive Ordnance Disposal
ESS	Explosives Safety Submission
°F	degrees Fahrenheit
ft/ft	feet per foot
HE	high explosives
MARCORSYSCOM	Marine Corps System Command
MC	munitions constituents
MCB	Marine Corps Base
MD	munitions debris
MDAS	material documented as safe
MEB	Marine Expeditionary Brigade
MEC	munitions and explosives of concern
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MMRP	Military Munitions Response Program
MPPEH	material potentially presenting an explosive hazard
MRP	Munitions Response Program
NA	not applicable
NAVSEA	Naval Sea Systems Command
Navy	Department of the Navy
NC 2B SW	North Carolina Administrative Code, Title 15A, Subchapter 2B Surface Water Quality Standards
NCGWQS	North Carolina Administrative Code Title 15A, Subchapter 2L Groundwater Quality Standards
NC SSL	North Carolina Soil Screening Level

NCAC	North Carolina Administrative Code
NCDENR	North Carolina Department of Environment and Natural Resources
NRWQC	National Recommended Water Quality Criteria
OP	Ordnance Pamphlet
ORP	oxidation-reduction potential
PA/SI	Preliminary Assessment/Site Inspection
PETN	Pentaerythritol tetranitrate
QA	quality assurance
QC	quality control
RSL	Regional Screening Level
SI	Site Investigation
SVOC	semivolatile organic compound
TAL	Target Analyte List
TCL	Target Compound List
USACE	United States Army Corps of Engineers
USAE	USA Environmental, Inc.
USEPA	United States Environmental Protection Agency
UXO	unexploded ordnance
UXOQCS	Unexploded Ordnance Quality Control Specialist
VOC	volatile organic compound

SECTION 1

Introduction

This report documents the findings of the Expanded Site Investigation (SI) conducted at Site UXO-21 – Former D-Area Gas Chamber (Second Marine Division [2D MAR DIV]) (Archive Search Reports [ASR] Area #2.204) at MCB CamLej in Jacksonville, North Carolina (**Figure 1-1)**.

The Site UXO-21 Expanded SI was conducted by CH2M HILL under the Naval Facilities Engineering Command Comprehensive Long-Term Environmental Action—Navy (CLEAN) Contract N62470-08-D-1000, Contract Task Order (CTO) WE41.

1.1 Purpose

The purpose of the Site UXO-21 Expanded SI was to address the Preliminary Assessment/ Site Inspection (PA/SI) Report (CH2M HILL, 2011a) recommendation to assess the nature of the geophysical anomalies identified during the digital geophysical mapping (DGM) survey conducted as part of the PA/SI.

1.2 Objectives and Approach

The objective of the Site UXO-21 Expanded SI was to assess the nature of geophysical anomalies identified in the Site UXO-21 PA/SI report as representing potential munitions and explosives of concern (MEC) through intrusive investigation. The Expanded SI was conducted in accordance with the Expanded SI Work Plan (CH2M HILL, 2011b) and the Munitions Response Program Master Project Plan (CH2M HILL, 2008).

1.3 Report Organization

This Expanded SI report is organized as follows:

- Section 1 – Introduction - provides the objectives of the Expanded SI and the tasks performed during the associated field effort
- Section 2 – Site Background - presents a brief summary of the site description, history, and physical setting
- Section 3 – Field Investigation Activities - provides a summary of the field activities conducted during the Expanded SI
- Section 4 – Investigation Results - presents the Expanded SI results
- Section 5 – Conclusions and Recommendations - presents the conclusions and recommendations for Site UXO-21, based upon the results of the PA/SI and Expanded SI environmental sampling and MEC intrusive investigation
- Section 6 – References - presents the documents cited in this report

PA/SI laboratory results, field documentation, intrusive investigation results, munitions debris (MD) disposal documentation, and post-detonation analytical data are contained in the appendixes.

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Legend

- Munitions Response Site Boundaries
- Highways
- Installation Boundary

N

0 7,500 15,000 30,000 Feet

1 inch = 15,000 feet

Figure 1-1
Base Location Map
Site UXO-21 Expanded SI Report
MCB CamLej
North Carolina

CH2MHILL

SECTION 2

Site Background

This section summarizes regional and site-specific information, including location, site setting, physical characteristics, and history.

2.1 MCB CamLej Location and Description

MCB CamLej covers approximately 236 square miles in Onslow County, North Carolina, and is bisected by the New River, which flows in a southeasterly direction toward the Atlantic Ocean. Construction of MCB CamLej began in 1941 with the objective of developing the world's most complete amphibious training base. The mission of MCB CamLej is to maintain combat-ready units for expeditionary deployment. MCB CamLej provides housing, training facilities, logistical support, and administrative supplies for Fleet Marine Force units and other assigned units. The Base and surrounding community is home to an active-duty, dependent, retiree, and civilian population of approximately 180,000 people. Land use surrounding MCB CamLej is varied. Mainly commercial properties are located along the northern boundary, with a mix of agricultural lands and residential areas located along the eastern and western boundaries of the Base. The southern boundary of MCB CamLej extends to the New River and Atlantic Ocean.

2.2 Site Setting

Site UXO-21 is approximately 17 acres in size and is located in the Mainside area of MCB CamLej, west of Sneads Ferry Road and south of Lyman Road (**Figure 2-1**). Sneads Ferry Road crosses from northwest to southeast through the eastern portion of the site, while an unnamed gravel road crosses from northwest to southeast through the western portion of the site.

Site UXO-21 is primarily composed of woodlands and fields. The woodlands include jurisdictional wetlands and surround an unnamed tributary of Cogdels Creek, which is located approximately one-third of a mile south of Site UXO-21. Cogdels Creek, in turn, discharges into the New River downstream of the site. The topography at Site UXO-21 is rolling terrain with surface elevations ranging from approximately 7 feet to 33 feet above mean sea level across the site.

2.3 Site History

Site UXO-21 encompasses the location of the former D-Area Gas Chamber. CH2M HILL completed an ASR for Site UXO-21 as part of the PA/SI (CH2M HILL, 2011a). A map showing the exact location of the former gas chamber was not located during the ASR, and historic maps dating between 1946 and 1984 showed no structures in the immediate area of the site. The *Preliminary Range Assessment* (USACE, 2001) and the *Closed Range List and Maps for MCB Camp Lejeune Report* (Lowder, 2005) identifies 1970 as the only period of use for this site.

Because this facility was used as a gas chamber, only chemical warfare training agents (Tear Gas) would have been used for gas mask confidence drills. However, other chemical training including war gas identification sets and riot control hand grenades may have been used in the area surrounding the gas chamber.

Adjacent and overlapping ranges that may have impacted Site UXO-21 are shown on **Figure 2-2**. These ranges include:

- Combat Area/Impact Area: This area is located east of Sneads Ferry Road as documented on Plate 2 in the *Preliminary Range Assessment* (PRA) (USACE, 2001).
- F-6 Live Grenade Range (ASR #2.55): Documented in the PRA with eight different configurations from 1951 to 1993. The 1976 configuration extended across Piney Green Road to Site UXO-21. Potential munitions include practice and high explosives (HE) hand grenades.

- F-13 Flame Thrower Range (ASR #2.139): Documented in the PRA with four different configurations from 1954 to 1987. The 1976 configuration extended across Sneads Ferry Road to Site UXO-21.
- F-7 Flame Thrower Range (ASR #2.128): Documented in the PRA as used in 1960, this historic range is north of Site UXO-21 and does not overlap Site UXO-21.
- F-13 Field Firing Range (ASR #2.54): Documented in the PRA with four different configurations from 1951 to 1993. Does not overlap Site UXO-21. Potential munitions include mortars (81mm and 60mm) and small arms.

2.4 Previous Investigations

A PA/SI was conducted between 2007 and 2010 to assess for the presence of contaminated environmental media and to identify geophysical anomalies potentially representing subsurface MEC.

The technical approach included:

- Identifying historical activities that may have resulted in environmental contamination
- Evaluating environmental media for the presence and nature of potential munitions constituents (MC) contamination
- Assessing the potential risk to ecological and human receptors under a residential use scenario
- Evaluating accessible areas for the potential presence of subsurface MEC using digital geophysical mapping (DGM)

The investigation at Site UXO-21 was completed in two phases covering separate areas of the site (**Figure 2-3**). The Phase I and Phase II investigation areas were located west of Sneads Ferry Road. No investigation was performed within the Site UXO-21 boundary east of Sneads Ferry Road, as the site boundaries indicate that the former gas chamber was likely located to the west of Sneads Ferry Road. The following sections present a summary of the Phase I and Phase II investigation results at Site UXO-21.

2.4.1 Phase I PA/SI

The Phase I PA/SI conducted in 2007 consisted of an investigation of a 5-acre area in the center of the site. The investigation included soil and groundwater sampling. A geophysical survey of approximately 10 percent of the 5-acre area and an intrusive investigation of the geophysical anomalies identified was conducted (see Section 2.4.3).

The environmental sampling activities conducted during Phase I included the following:

- Ten surface soil samples collected using the TR-02-1 approach at a depth interval of 0 to 2 inches below ground surface (bgs). Soil samples were collected by compositing a minimum of 30 sample aliquots from random locations within each 1-meter by 1-meter sampling location, in accordance with the United States Army Corps of Engineers (USACE) Technical Report ERDC/CRREL TR-02-1, *Guide for Characterization of Sites Contaminated with Energetic Materials* (Thiboutot, Ampleman, and Hewitt, 2002).
- Ten subsurface soil samples obtained from soil cores collected using a direct-push technology (DPT) rig. The samples were collected from unsaturated soil immediately above the water table at depths ranging from 2 to 12 feet bgs.
- Three groundwater samples collected from temporary groundwater monitoring wells screened in the surficial aquifer

The soil and groundwater samples were analyzed by the following methods:

- Target Compound List (TCL) volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method OLM04
- TCL semivolatile organic compounds (SVOCs) by USEPA Method OLM04

- Target Analyte List (TAL) Metals by USEPA Method ILM04 (dissolved metals included for the groundwater samples)
- Tear gas constituents (chloroacetophenone [CN] and o-chlorobenzylidenemalonitrile [CS]) by SW-846 USEPA Method 8270C.

Following third-party data validation of the laboratory analytical data, soil analyte concentrations were screened against the North Carolina Department of Environment and Natural Resources (NCDENR) Federal Remediation Branch Target Soil Screening Levels (NC SSLs) (NCDENR, 2010a), the Adjusted USEPA Regional Screening Levels (RSLs) for Chemical Contaminant Tables (USEPA, 2010), and 2 times the mean base background [BBG] concentration, which were available for inorganic analytes only (Baker, 2001). The RSLs for non-carcinogenic compounds were adjusted by dividing by 10 to conservatively account for exposure to multiple analytes. NC SSLs were developed to identify chemical concentrations in soil that have the potential to impact groundwater, taking fate and transport parameters into consideration (NCDENR, 2010a).

The concentrations of constituents detected in groundwater were screened against the North Carolina Administrative Code (NCAC) Title 15A, Subchapter 2L Groundwater Quality Standards (NCGWQS) (NCDENR, 2010b) and 2 times the mean BBG groundwater concentrations (Baker, 2002).

Phase I surface and subsurface soil analytical results from Site UXO-21 did not exceed screening criteria.

Phase I groundwater analytical results from Site UXO-21 were as follows:

- One groundwater sample contained the SVOC bis(2-ethylhexyl)phthalate at a concentration exceeding both the NCGWQS and BBG concentration.
- One groundwater sample contained total chromium and thallium concentrations which exceeded both the NCGWQS and corresponding BBG concentration. Other metals were detected but did not exceed the regulatory screening criteria or twice the mean BBG concentrations.

Phase I soil and groundwater analytical results are compared to screening criteria and presented in **Appendix F.** Groundwater sampling locations with screening criteria exceedances are presented on **Figure 2-4.**

2.4.2 Phase II PA/SI

The Phase II PA/SI investigation activities were conducted from February through April 2010 to assess a 9.5-acre area of UXO-21 surrounding the Phase I investigation area. Phase II environmental sampling included the collection of surface soil, groundwater, sediment, and surface water. A geophysical survey of approximately 10 percent of the 9.5-acre area was also conducted (see Section 2.4.3). An intrusive investigation of the geophysical anomalies was not conducted during Phase II.

Ten temporary monitoring wells were installed to depths ranging from 12 to 20 feet bgs to further characterize the shallow lithology and hydrogeology at the site. Continuous soil cores from the borings were examined and the lithology described by the CH2M HILL geologist. Static water levels were gauged to support the interpretation of the surficial aquifer flow direction and hydraulic gradient. A discussion of the site geology and hydrogeology are presented in Section 2.7.

The sampling activities conducted during Phase II of the investigation consisted of:

- Thirty surface soil samples collected using the TR-02-1 approach at a depth interval of 0 to 2 inches bgs
- Six surface water and six sediment samples collected at co-located sites from the unnamed drainage features in the northern and southern portions of the site
- Ten groundwater samples collected from temporary monitoring wells screened in the surficial aquifer

Soil

Surface soil samples were analyzed for the following constituents:

- TCL VOCs (SW-846 USEPA Method 8260B)

- TCL SVOCs plus CS and CN (SW-846 USEPA Method 8270C)
- TAL metals (SW-846 USEPA Method 6010B)
- Explosives residues including pentaerythritol tetranitrate (PETN) and nitroglycerin (SW-846 USEPA Method 8330)
- Perchlorate (SW-846 USEPA Method 6850)

The concentrations of constituents detected in surface soil were screened against the NC SSLs (NCDENR, 2010a), the Adjusted USEPA Industrial and Residential RSLs for Chemical Contaminant Tables (USEPA, 2010), and 2 times the mean BBG (Baker, 2001).

Phase II surface soil analytical results were as follows:

- SVOCs benzo(a)pyrene and nitrobenzene were present at concentrations exceeding the Adjusted USEPA Residential RSLs.
- Explosives residues (3-nitrotoluene and nitroglycerin) were found at concentrations exceeding the Adjusted USEPA Residential RSLs.
- Metals (aluminum, arsenic, chromium, and manganese) were present at concentrations exceeding both regulatory screening criteria and twice the corresponding mean BBG.

Phase II investigation surface soil analytical results are compared to screening criteria and presented in **Appendix A,** and the locations of surface soil screening criteria exceedances are presented on **Figure 2-5**.

Surface Water and Sediment

Surface water and sediment samples obtained during Phase II were analyzed for the following constituents:

- TCL VOCs (SW-846 USEPA Method 8260B)
- TCL SVOCs including CS and CN (SW-846 USEPA Method 8270C)
- TAL Metals (SW-846 USEPA Method 6010B), including dissolved for surface water
- Explosives Residues (SW-846 USEPA Method 8330)
- Perchlorate (SW-846 USEPA Method 6850)

The concentrations of constituents detected in surface water were screened against the Adjusted USEPA Tap Water RSLs (USEPA, 2010), NCGWQS (NCDENR, 2007) for human health and water supply, and the National Recommended Water Quality Criteria (NRWQC) (USEPA, 2009) for human health organisms and water organisms. Sediment concentrations were screened against Adjusted USEPA Industrial and Residential RSLs (USEPA, 2010).

Surface water analytical results were as follows:

- VOCs and perchlorate were detected, but concentrations did not exceed the regulatory screening criteria.
- One surface water sample contained the SVOC bis(2-ethylhexyl)phthalate at a concentration that exceeded the regulatory screening criteria. No other SVOCs were detected in surface water.
- Metals (arsenic, chromium, iron, and manganese) were present at concentrations exceeding regulatory screening criteria.

Sediment analytical results were as follows:

- VOCs, SVOCs, and explosives residues were detected, but concentrations did not exceed the regulatory screening criteria.
- Chromium exceeded the regulatory screening criteria in all samples.

Surface water and sediment analytical results from Phase II are compared to screening criteria and presented in **Appendix F.** The locations of corresponding surface water and sediment screening criteria exceedances are presented on **Figures 2-6 and 2-7,** respectively.

Groundwater

Groundwater samples from the 10 UXO-21 monitoring wells were collected in April 2010. Water quality parameters (specific conductance, pH, turbidity, temperature, dissolved oxygen [DO], and oxidation-reduction potential [ORP]) were monitored during the purging phase using a YSI 556® water quality meter and Hanna® turbidity meter. The groundwater samples were analyzed for the following constituents:

- TCL VOCs (USEPA Method OLM04)
- TCL SVOCs (USEPA Method OLM04)
- Total and dissolved (filtered) TAL metals (USEPA Method ILM04)
- Tear gas constituents (CN and CS) (SW-846 USEPA Method 8270C)
- Explosives residues (SW-846 USEPA Method 8330)
- Perchlorate (SW-846 USEPA Method 6850)

Groundwater concentrations were screened against the NCGWQS (NCDENR, 2010b), Adjusted USEPA Tap Water RSLs (USEPA, 2010), and MCB CamLej background groundwater data (Baker, 2002).

The Phase II groundwater analytical results were as follows:

- Chloroform was detected at concentrations exceeding the Adjusted USEPA Tap Water RSL.
- Metal concentrations did not exceed regulatory screening criteria or the corresponding BBG concentrations.
- Perchlorate was detected but did not exceed regulatory screening criteria.

Phase II groundwater results are compared to screening criteria and presented in **Appendix A,** and the locations of groundwater screening criteria exceedances are presented on **Figure 2-8**.

2.4.3 Geophysical Surveys and Intrusive Investigation

Geophysical survey activities were performed within the Phase I investigation area in 2007 and 2009 by NAEVA Geophysics. The 2007 activities included a geophysical survey of transects covering approximately 0.6 acres of the 5-acre investigation area. The survey was performed using a single-coil EM61-MK2 high sensitivity metal detector (EM61). The activities conducted in 2009 included a geophysical survey of 100 percent of the accessible portions of the Phase I investigation area, an area of approximately 4.2 acres out of the 5-acre area, and included a re-survey of the areas covered during the 2007 survey (**Figure 2-9**). The 0.8-acre portion of the site that could not be accessed during the geophysical surveys consisted of surface water bodies and wetland areas. A total of 569 geophysical anomalies were identified as representing potential subsurface MEC during the Phase I investigation.

USA Environmental, Inc. (USAE) commenced intrusive investigation activities within the Phase I area in March 2009. Marine Corps System Command (MARCORSYSCOM) determined that an Explosives Safety Submission (ESS) was not required for the planned site activities. Intrusive investigation activities ceased after encountering two suspected MEC/material potentially presenting an explosive hazard (MPPEH) items and the MCB CamLej Explosive Ordnance Disposal (EOD) team conducted an emergency response to dispose of the two items, a M22A1 Ground Illumination Signal and a M27A1B1 Projectile Air Burst Simulator. Intrusive activities resumed in November 2009 following the preparation and approval of an ESS (CH2M HILL, 2009). The geophysical anomalies identified for investigation during the Phase I DGM survey were reacquired, and each identified anomaly was excavated using hand tools, inspected, and disposed of in accordance with Ordnance Pamphlet (OP)-5 and the PA/SI Work Plan (NAVSEA, 2010 and CH2M HILL, 2010). Of the 569 anomalies investigated, 34 were identified as MPPEH, and are as follows (CH2M HILL, 2011a):

- (14) Grenade, Rifle, Star, Cluster, Green, M20A1
- (2) Grenade, Hand, Practice, Standard, MKII
- (1) Projectile, 40mm, Ground Marker, Green Smoke, M715
- (2) Expended rifle grenade
- (3) Expended rifle grenade body
- (12) Tail Boom

During the 2010 Phase II geophysical survey, 738 anomalies representing potential subsurface MEC were identified within the 1.06 acres of surveyed transects (approximately 11 percent of the Phase II area) (**Figure 2-10**). An intrusive investigation of these anomalies was not conducted. The highest concentrations of anomalies were located near Sneads Ferry Road and along the unpaved service road crossing the southwestern portion of the site. Based on the Phase I and II DGM results and the Phase I intrusive investigation results, the PA/SI report recommended that an intrusive investigation be performed to assess the nature of the geophysical anomalies identified in the Phase II investigation area and that the need for additional sampling of MC be re-evaluated based on the results of the intrusive investigation.

2.4.4 Risk Screening Summary

Human Health Risk Screening Summary

The human health risk screening indicated that constituents detected in the soil, groundwater, surface water, and sediment are not expected to pose unacceptable risks to potential human receptors. Results of the human health risk screening are summarized in **Table 2-1**.

Ecological Risk Screening Summary

The ecological risk screening showed that there were no unacceptable risks to populations of ecological receptors exposed to surface soil, subsurface soil, groundwater, surface water, or sediment. Results of the ecological risk screening are summarized in **Table 2-2**.

2.4.5 Summary of Previous Investigations

The PA/SI Phase I and II environmental sampling screening level exceedances for soil, sediment, surface water, and groundwater are summarized in **Tables 2-3** through **2-6**, respectively. Because no unacceptable human health or ecological risks were identified from exposure to site media, additional environmental sampling was not recommended at UXO-21. The PA/SI Report (CH2M HILL, 2011a) recommended that an intrusive investigation be performed within the Phase II investigation area to assess the nature and extent of potential subsurface MEC.

2.5 Regional Climate

The climate in the Onslow County area is characterized by short, mild winters and long, hot, and humid summers. Average annual net precipitation is approximately 50 inches. Ambient air temperatures generally range from 33 to 53 degrees Fahrenheit (°F) in the winter months, and from 71 to 98 °F during the summer months. Winds are generally south-southwesterly in the summer and north-northwesterly in the winter (Water and Air Research, 1983). The hurricane season begins on June 1 and continues through November 30. Storms of non-tropical origin, such as frontal passages, local thunderstorms, and tornadoes, are more frequent and can occur at any time during the year.

2.6 Regional Geology and Hydrogeology

Regional geology at MCB CamLej is discussed in the *Munitions Response Program Master Project Plan, Marine Corps Base Camp Lejeune, North Carolina* (CH2M HILL, 2008), referred to hereinafter as the Munitions Response Program (MRP) Master Project Plan.

TABLE 2-1

PA/SI Human Health Risk Screening Summary

Media	Step 1 COPCs		Step 2 COPCs		Step 3 COPCs		Conclusion
	Phase I Investigation Area	Phase II Investigation Area	Phase I Investigation Area	Phase II Investigation Area	Phase I Investigation Area	Phase II Investigation Area	
Surface Soil	None	Benzo(a)pyrene Benzo(b)fluoranthene Nitrobenzene 3-Nitrotoluene Nitroglycerin Aluminum Arsenic Chromium	NC	None	NC	NC	No unacceptable risk expected from exposure to Phase I or II surface soil.
Subsurface Soil	None	NA	NC	NA	NC	NA	No unacceptable risk expected from exposure to subsurface soil.
Groundwater	Aluminum Chromium	Chloroform	Chromium	Chloroform	NP	Chloroform	No unacceptable risk expected from exposure to groundwater. Chloroform is a common laboratory contaminant, and may not be associated with the site.
Groundwater - Vapor Intrusion	None	None	NC	NC	NC	NC	No unacceptable risk expected from vapor intrusion from groundwater to indoor air.
Surface Water	NA	bis(2-Ethyl)hexyl-phthalate Arsenic Iron Manganese	NA	bis(2-Ethylhexyl-phthalate Arsenic	NA	None	No unacceptable risk expected from exposure to surface water.
Sediment	NA	Chromium	NA	None	NA	NC	No unacceptable risk expected from exposure to sediment.

Notes:
COPC = chemical of potential concern
NC = not calculated; No COPCs were identified in the preceding step.
NA = not applicable, surface water and sediment samples not collected in Phase I
NP = not performed, not enough samples to calculate exposure point concentration for use in Step 3

TABLE 2-2

PA/SI Ecological Risk Screening Summary

Media	Ecological Risk Screening COPCs		Conclusions
	Phase I	Phase II	
Surface Soil	None	None	No unacceptable risk from surface soil
Subsurface Soil	None	None	No unacceptable risk from subsurface soil
Groundwater	None	None	No unacceptable risk from groundwater
Sediment	NA	None	No unacceptable risk from sediment (Phase II)
Surface Water	NA	None	No unacceptable risk from surface water (Phase II)

Notes:

NA - not applicable

TABLE 2-3

PA/SI Surface Soil Criteria Exceedance Summary

Analyte	Surface Soil Max Concentration	2 X Mean BBG	NC SSLs	Adjusted Industrial RSLs	Adjusted Residential RSLs
Benzo(a)pyrene (µg/kg)	30	NA	NA	210	15
Nitrobenzene (µg/kg)	11,700 J	NA	NA	24,000	4,800
3-nitrotoluene (µg/kg)	2,690 J	NA	NA	6,200	610
Nitroglycerin (µg/kg)	1,870 J	NA	NA	6,200	610
Aluminum (mg/kg)	9,090	5.487	NA	99,000	7,700
Arsenic (mg/kg)	1.6	0.626	5.8	1.6	0.39
Chromium (mg/kg)	8.84	6.05	3.8	5.6	0.29
Manganese (mg/kg)	135	13.7	65	2,300	180

µg/kg - micrograms per kilogram
BBG – Base Background
J – Analyte present, value may or may not be accurate or precise
mg/kg - milligrams per kilogram
NA – not applicable
NC SSL- North Carolina Soil Screening Level
RSL – Regional Screening Level

TABLE 2-4

PA/SI Surface Water Criteria Exceedance Summary

Analyte	Surface water Max Concentration	NC 2B SW Quality Standards	NRWQC – Human Health	Adjusted Tap Water RSLs
bis(2-ethylhexyl)phthalate (µg/L)	2.53 J	NA	1.2	4.8
Arsenic (µg/L)	2.75	10	0.018	0.045
Chromium (µg/L)	1.09	NA	100	0.043
Iron (µg/L)	3,270	NA	300	2,600
Manganese (µg/L)	178	200	50	88

µg/L - micrograms per liter
NA - not applicable
NC 2B SW – North Carolina Administrative Code, Title 15A, Subchapter 2B Surface Water Quality Standards for human health and water supply
NRWQC – National Recommended Water Quality Criteria
RSL – Regional Screening Level

TABLE 2-5

PA/SI Sediment Criteria Exceedance Summary

Analyte	Sediment Max Concentration	Adjusted Industrial Soil RSLs	Adjusted Residential Soil RSLs
Chromium (mg/kg)	2.57	5.6	0.29

mg/kg - milligrams per kilogram
RSL – Regional Screening Level

TABLE 2-6

PA/SI Phase I & II Groundwater Criteria Exceedance Summary

Analyte	Groundwater Max Concentration	2 X Mean BBG	NCGWQS	USEPA Adjusted Tap Water RSLs
bis(2-ethylhexyl)phthalate (µg/L)	3.3 J	NA	3	4.8
Chromium (mg/L)	0.0103	0.00313	0.01	NA
Thallium (mg/L)	0.0056 J	0.00378	0.002	NA
Chloroform (µg/L)	28	NA	70	0.19

µg/L - micrograms per liter
BBG – Base Background
J – Analyte present, value may or may not be accurate or precise
mg/L - milligrams per liter
NCGWQS- North Carolina Administrative Code Title 15A, Subchapter 2L Groundwater Quality Standards
RSL –Regional Screening Level

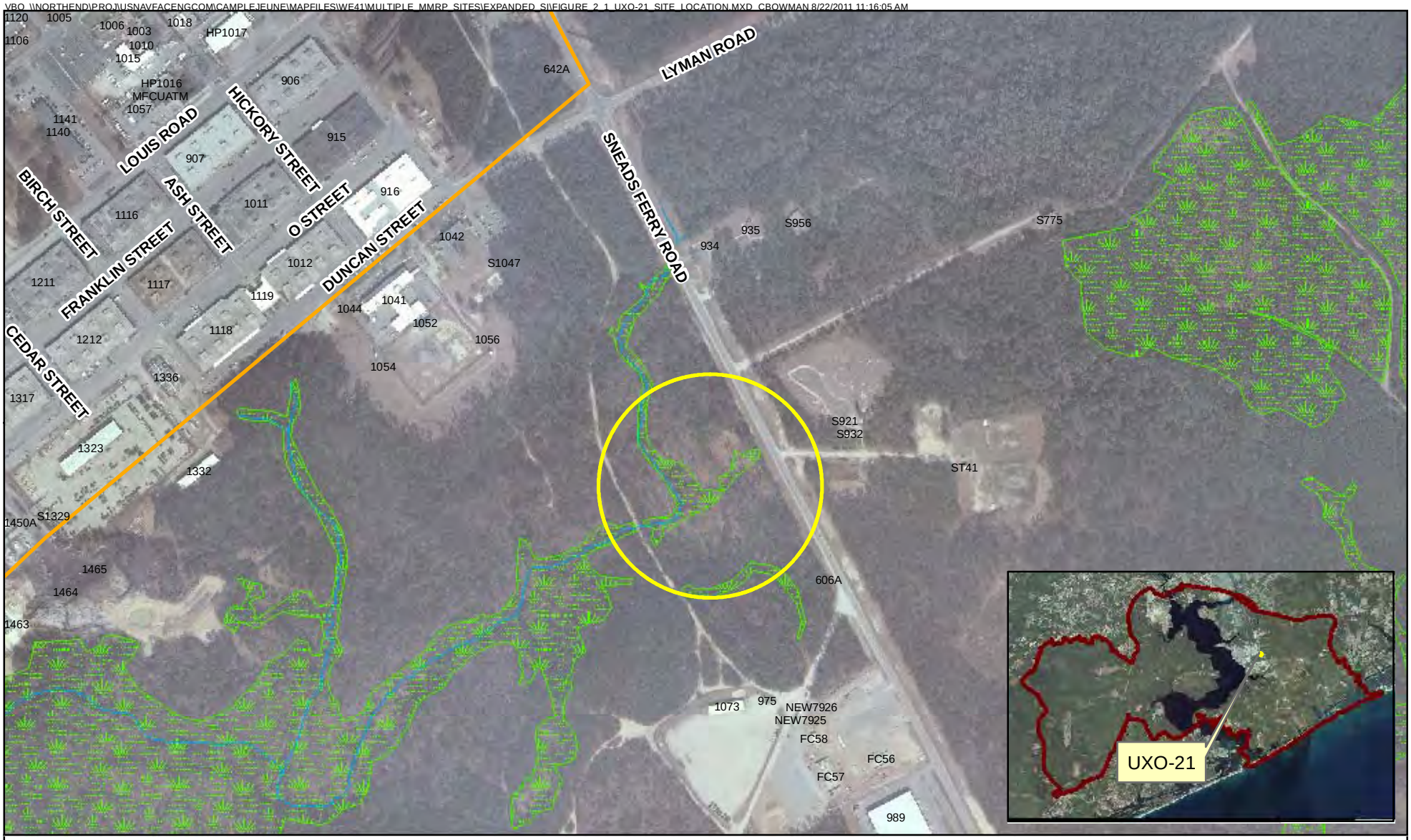
2.7 Site Geology and Hydrogeology

Site specific geologic information was obtained from soil borings collected during the PA/SI from depths ranging from 5 to 25 feet bgs (CH2M HILL, 2011a). Given the relatively shallow depths of intrusive investigation activities, this discussion of site-specific geology is limited to the Undifferentiated Formation that overlies the Belgrade and River Bend Formations. Inspection of the soil cores recovered from Site UXO-21 indicates that the underlying sediments consist of fine to medium-grained sands with varying amounts of silt and clay consistent with those of the surficial aquifer (Cardinell, et al., 1993). Particle sizes noted from soil boring logs indicate sediments ranging from clay and silt to cobble size stones. The predominant lithology directly underlying Site UXO-21 consists of poorly graded, silty sand interbedded with a lesser amount of clayey and gravelly sands.

Site-specific hydrogeologic information was derived from 10 shallow temporary monitoring wells installed in the unconfined surficial aquifer during Phase II of the PA/SI. The depth to surficial groundwater at the site ranged from 3.38 to 18.80 feet below top-of-casing in April 2010. The potentiometric surface of the water table in April 2010 indicated that groundwater generally flowed to the west-southwest with an average horizontal hydraulic gradient of 0.01 foot per foot (ft/ft) (CH2M HILL, 2011a).

Figure 2-11 presents a general summary of the Site UXO-21 physical conditions.

VBO \\NORTHEND\PROJ\USNAVFACENGCOM\CAMPLEJEUNE\MAPFILES\WE41\MULTIPLE_MMRP_SITES\EXPANDED_SI\FIGURE_2_1_UXO-21_SITE_LOCATION.MXD CBOWMAN 8/22/2011 11:16:05 AM



Legend

- Surface Water
- Jurisdictional Wetlands
- Site UXO-21- Former D Area Gas Chamber (2D MAR DIV) (ASR #2.204)
- Hadnot Point Boundary
- Installation Boundary

N

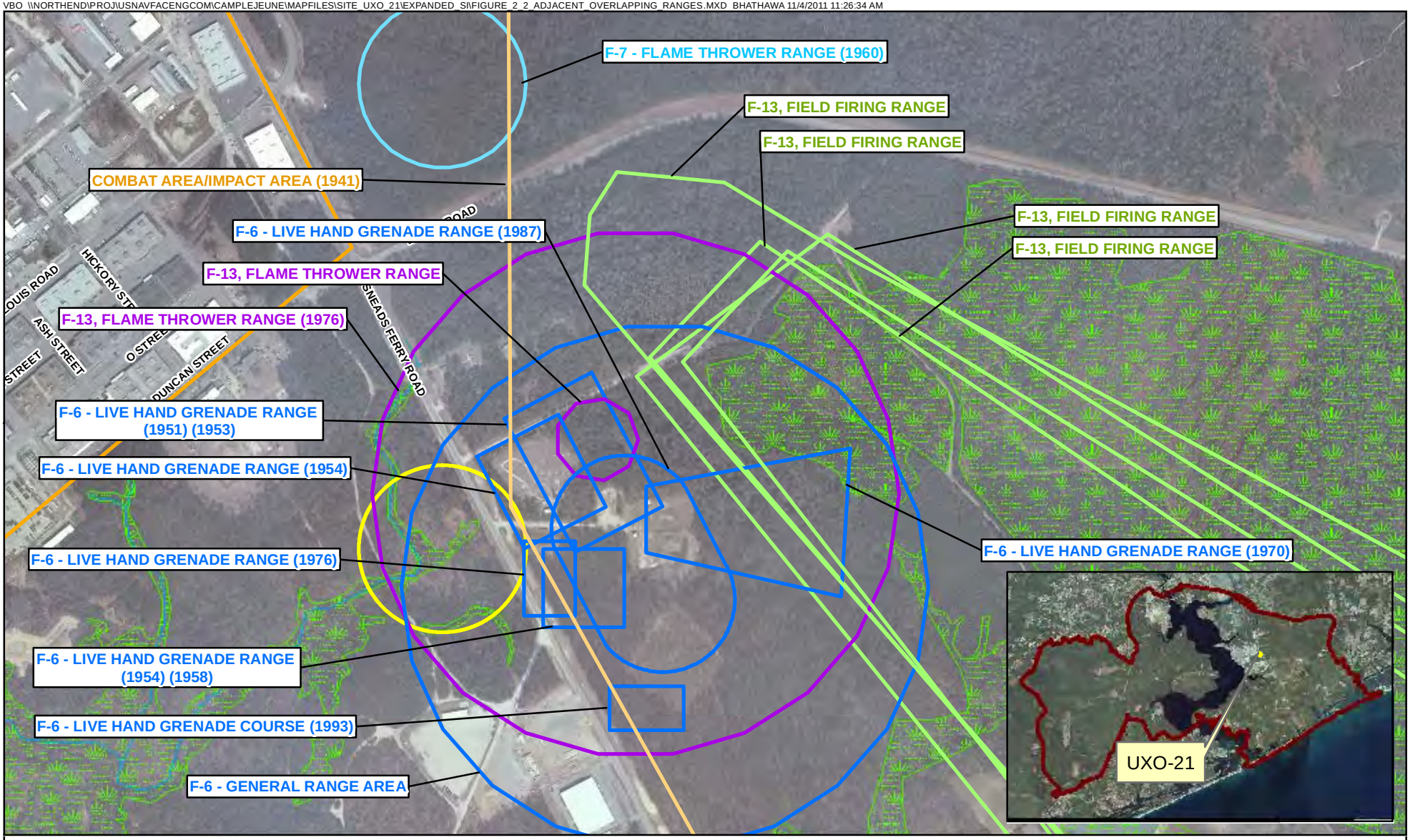
0 300 600 1,200 Feet

1 inch = 600 feet

Figure 2-1
Site Location
Site UXO-21 Expanded SI Report
MCB CamLej
North Carolina

CH2MHILL

VBO \\NORTHEND\PROJ\USNAVFACENGCOM\CAMPLEJEUNE\MAPFILES\SITE_UXO_21\EXPANDED_SI\FIGURE_2_2_ADJACENT_OVERLAPPING_RANGES.MXD BHATHAWA 11/4/2011 11:26:34 AM



Legend

- Combat Area/Impact Area
- F-6 - Live Hand Grenade Range
- F-7 - Flame Thrower Range
- F-13 - Field Firing Range
- F-13 - Flame Thrower Range
- Site UXO-21- Former D Area Gas Chamber (2D MAR DIV) (ASR #2.204)
- Hadnot Point Boundary
- Installation Boundary
- Surface Water
- Jurisdictional Wetlands

N

0 400 800 Feet

1 inch = 800 feet

Figure 2-2
Adjacent and Overlapping Ranges
Site UXO-21 Expanded SI Report
MCB CamLej
North Carolina

CH2MHILL

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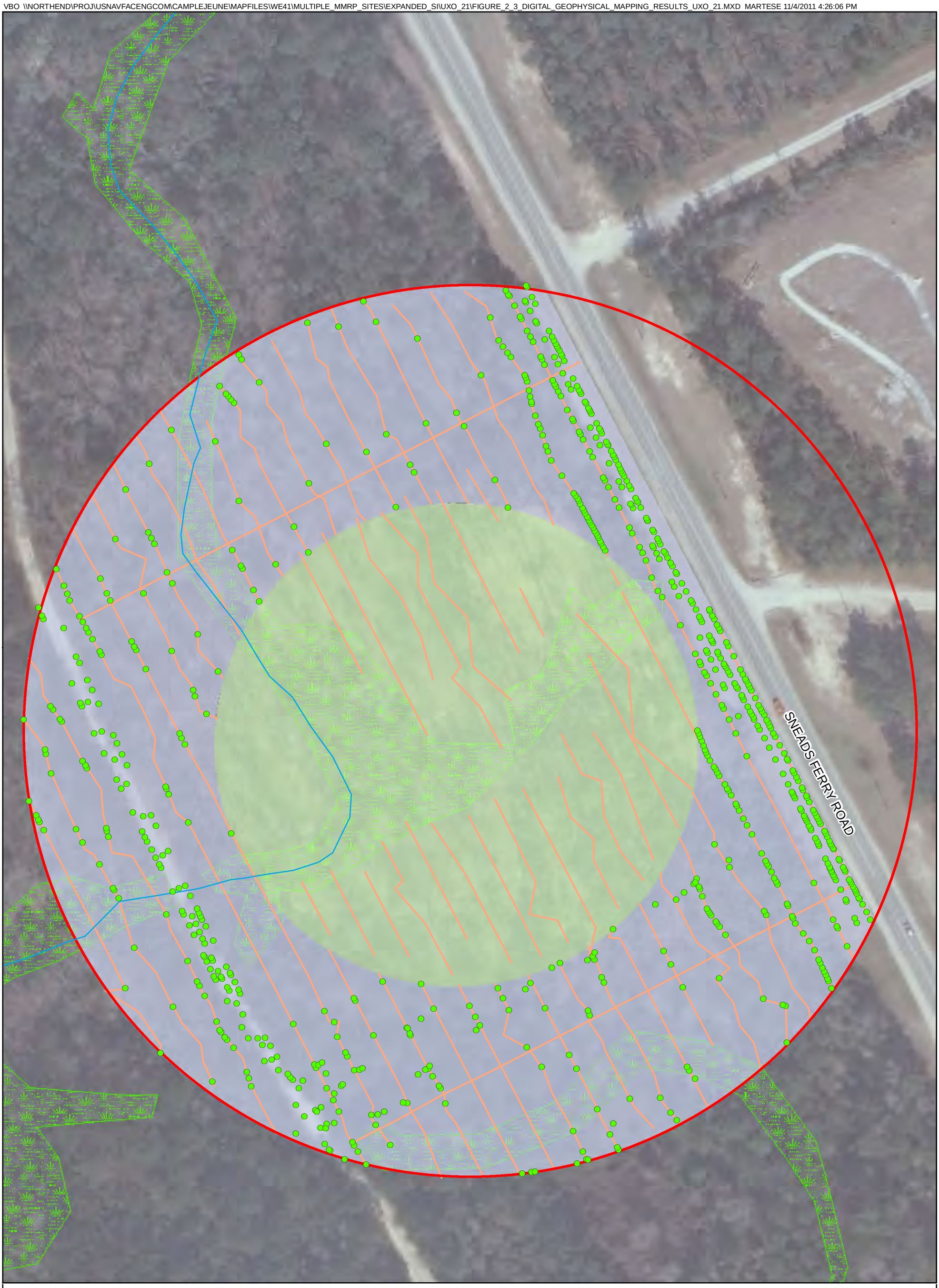

Figure 2-3
Digital Geophysical Mapping Results
Site UXO-21 Expanded SI Report
MCB CamLej
North Carolina

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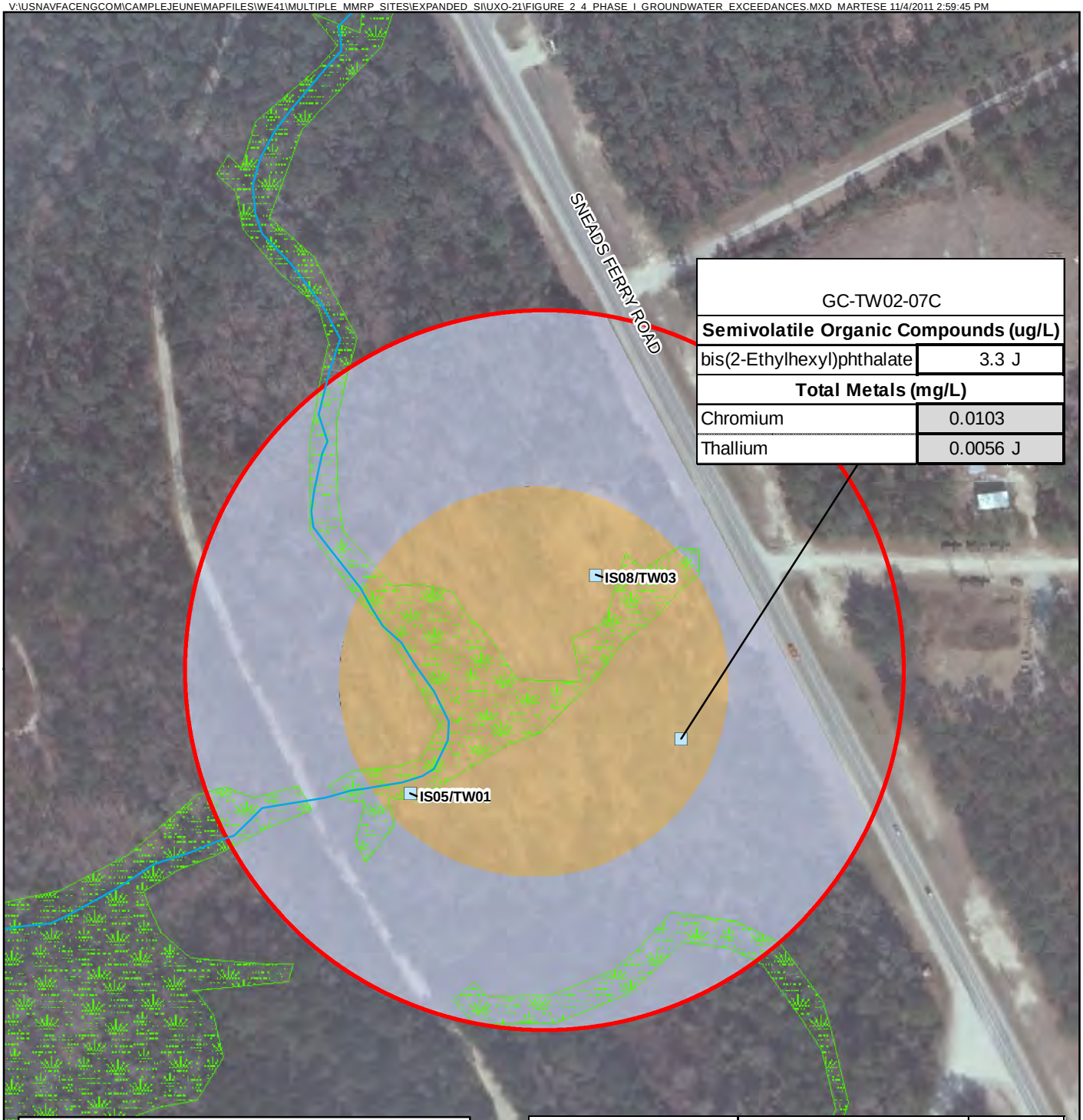

GC-TW02-07C	
Semivolatile Organic Compounds (ug/L)	
bis(2-Ethylhexyl)phthalate	3.3 J
Total Metals (mg/L)	
Chromium	0.0103
Thallium	0.0056 J

Notes:
Shading indicates exceedance of two times the mean base background concentration for Groundwater
Bold box indicates exceedance of NC2LGW (January 2010) or the more conservative MCL
J - Analyte present; value may be imprecise
ug/L - Micrograms per liter
mg/L - Milligram per liter
If an analyte is found above screening critera, but falls below base background it is not noted.

Chemical Name	Camp Lejeune Background GW 2X Mean	NC2LGW
Semivolatile Organic Compounds (ug/L)		
bis(2-Ethylhexyl)phthalate	--	3
Total Metals (mg/L)		
Chromium	0.00313	0.01
Thallium	0.00378	0.002

Legend
- Surface and Suburface Soil Samples / Temporary Well
- Creek
- UXO-21
- Phase I Investigation Area
- Phase II Investigation Area
- Jurisdictional Wetlands

N

0 50 100 200 Feet

1 inch = 200 feet

Figure 2-4
Phase I Groundwater Exceedances
Site UXO-21 Expanded SI Report
MCB CamLej
North Carolina

CH2MHILL

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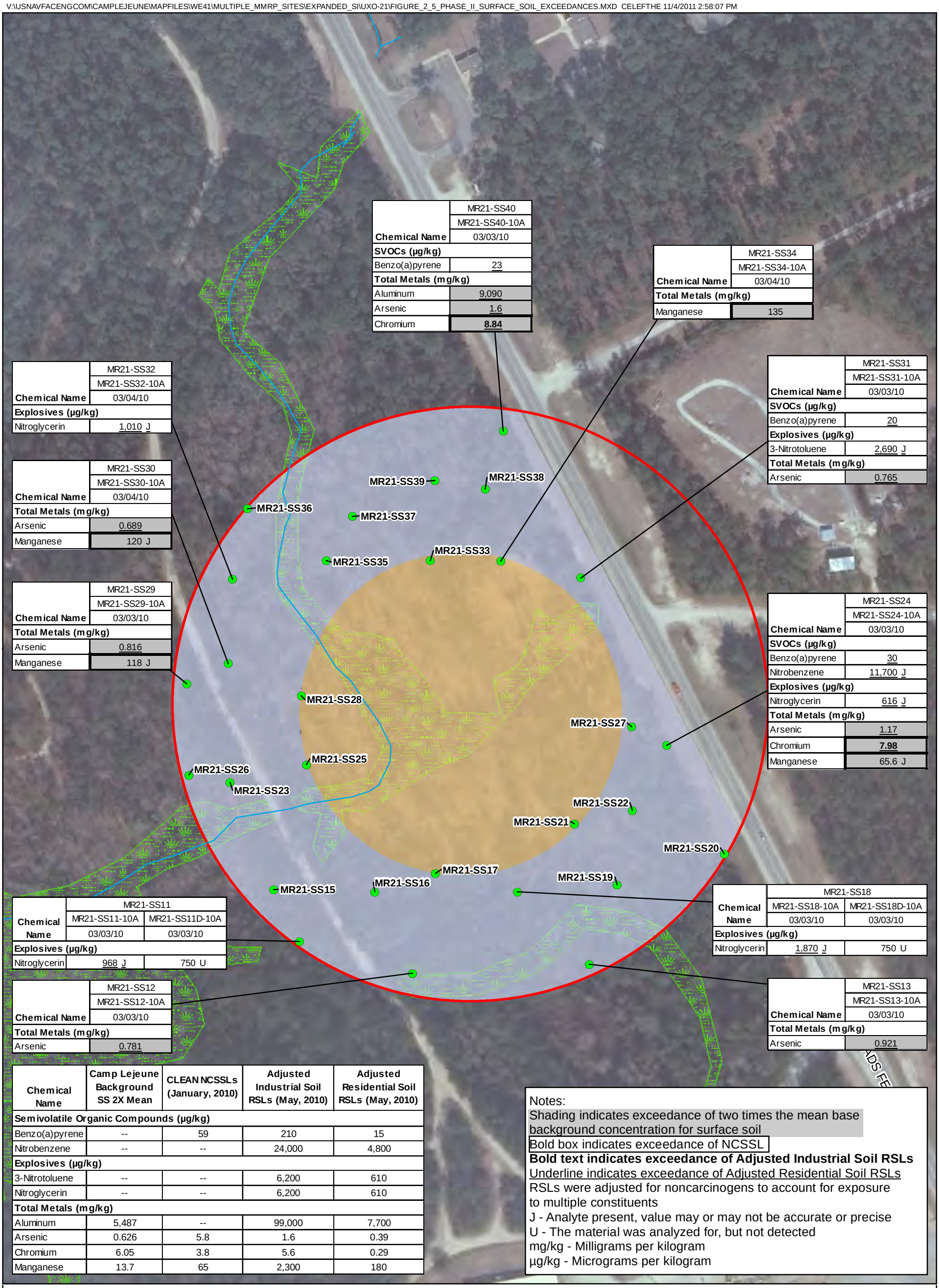

Chemical Name	MR21-SS40
	MR21-SS40-10A
	03/03/10
SVOCs (µg/kg)	
Benzo(a)pyrene	23
Total Metals (mg/kg)	
Aluminum	9,090
Arsenic	1.6
Chromium	**8.84**

Chemical Name	MR21-SS34
	MR21-SS34-10A
	03/04/10
Total Metals (mg/kg)	
Manganese	135

Chemical Name	MR21-SS32
	MR21-SS32-10A
	03/04/10
Explosives (µg/kg)	
Nitroglycerin	1,010 J

Chemical Name	MR21-SS31
	MR21-SS31-10A
	03/03/10
SVOCs (µg/kg)	
Benzo(a)pyrene	20
Explosives (µg/kg)	
3-Nitrotoluene	2,690 J
Total Metals (mg/kg)	
Arsenic	0.765

Chemical Name	MR21-SS30
	MR21-SS30-10A
	03/04/10
Total Metals (mg/kg)	
Arsenic	0.689
Manganese	120 J

Chemical Name	MR21-SS29
	MR21-SS29-10A
	03/03/10
Total Metals (mg/kg)	
Arsenic	0.816
Manganese	118 J

Chemical Name	MR21-SS24
	MR21-SS24-10A
	03/03/10
SVOCs (µg/kg)	
Benzo(a)pyrene	30
Nitrobenzene	11,700 J
Explosives (µg/kg)	
Nitroglycerin	616 J
Total Metals (mg/kg)	
Arsenic	1.17
Chromium	**7.98**
Manganese	65.6 J

Chemical Name	MR21-SS11	
	MR21-SS11-10A	MR21-SS11D-10A
	03/03/10	03/03/10
Explosives (µg/kg)		
Nitroglycerin	968 J	750 U

Chemical Name	MR21-SS18	
	MR21-SS18-10A	MR21-SS18D-10A
	03/03/10	03/03/10
Explosives (µg/kg)		
Nitroglycerin	1,870 J	750 U

Chemical Name	MR21-SS12
	MR21-SS12-10A
	03/03/10
Total Metals (mg/kg)	
Arsenic	0.781

Chemical Name	MR21-SS13
	MR21-SS13-10A
	03/03/10
Total Metals (mg/kg)	
Arsenic	0.921

Chemical Name	Camp Lejeune Background SS 2X Mean	CLEAN NCSSLs (January, 2010)	Adjusted Industrial Soil RSLs (May, 2010)	Adjusted Residential Soil RSLs (May, 2010)
Semivolatile Organic Compounds (µg/kg)				
Benzo(a)pyrene	--	59	210	15
Nitrobenzene	--	--	24,000	4,800
Explosives (µg/kg)				
3-Nitrotoluene	--	--	6,200	610
Nitroglycerin	--	--	6,200	610
Total Metals (mg/kg)				
Aluminum	5,487	--	99,000	7,700
Arsenic	0.626	5.8	1.6	0.39
Chromium	6.05	3.8	5.6	0.29
Manganese	13.7	65	2,300	180

Notes:
Shading indicates exceedance of two times the mean base background concentration for surface soil
Bold box indicates exceedance of NCSSL
Bold text indicates exceedance of Adjusted Industrial Soil RSLs
Underline indicates exceedance of Adjusted Residential Soil RSLs
RSLs were adjusted for noncarcinogens to account for exposure to multiple constituents
J - Analyte present, value may or may not be accurate or precise
U - The material was analyzed for, but not detected
mg/kg - Milligrams per kilogram
µg/kg - Micrograms per kilogram

Legend
- PA/SI Soil Sample Location
- Creek
- UXO-21
- Phase I Investigation Area
- Phase II Investigation Area
- Jurisdictional Wetlands

N

0 75 150 300 Feet

1 inch = 150 feet

Figure 2-5
Phase II Surface Soil Exceedances
Site UXO-21 Expanded SI Report
MCB CamLej
North Carolina

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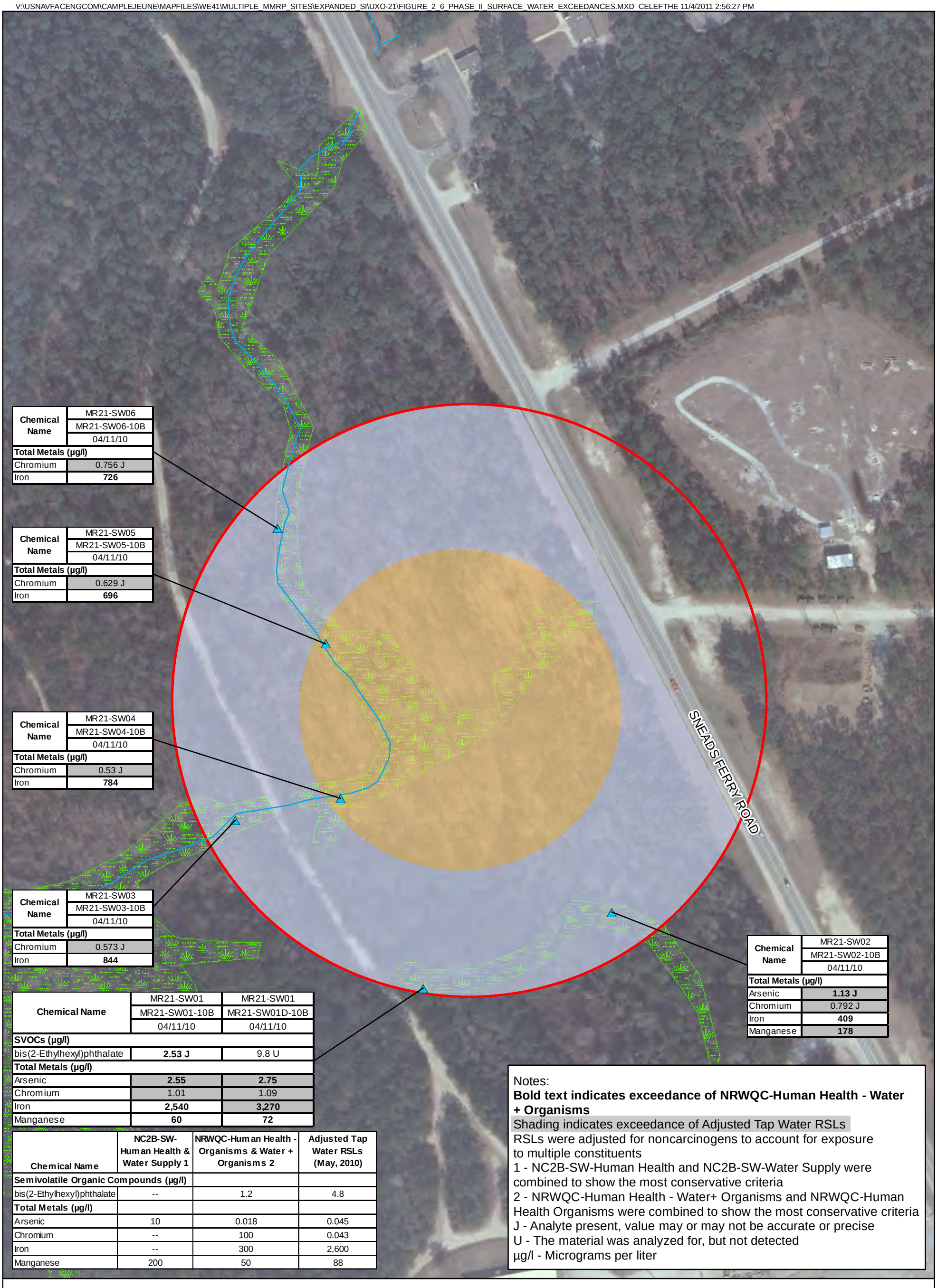

Chemical Name	MR21-SW06
	MR21-SW06-10B
	04/11/10
Total Metals (µg/l)	
Chromium	0.756 J
Iron	**726**

Chemical Name	MR21-SW05
	MR21-SW05-10B
	04/11/10
Total Metals (µg/l)	
Chromium	0.629 J
Iron	**696**

Chemical Name	MR21-SW04
	MR21-SW04-10B
	04/11/10
Total Metals (µg/l)	
Chromium	0.53 J
Iron	**784**

Chemical Name	MR21-SW03
	MR21-SW03-10B
	04/11/10
Total Metals (µg/l)	
Chromium	0.573 J
Iron	**844**

Chemical Name	MR21-SW01	MR21-SW01
	MR21-SW01-10B	MR21-SW01D-10B
	04/11/10	04/11/10
SVOCs (µg/l)		
bis(2-Ethylhexyl)phthalate	**2.53 J**	9.8 U
Total Metals (µg/l)		
Arsenic	**2.55**	**2.75**
Chromium	1.01	1.09
Iron	**2,540**	**3,270**
Manganese	**60**	**72**

Chemical Name	MR21-SW02
	MR21-SW02-10B
	04/11/10
Total Metals (µg/l)	
Arsenic	**1.13 J**
Chromium	0.792 J
Iron	**409**
Manganese	**178**

Chemical Name	NC2B-SW-Human Health & Water Supply 1	NRWQC-Human Health - Organisms & Water + Organisms 2	Adjusted Tap Water RSLs (May, 2010)
Semivolatile Organic Compounds (µg/l)			
bis(2-Ethylhexyl)phthalate	--	1.2	4.8
Total Metals (µg/l)			
Arsenic	10	0.018	0.045
Chromium	--	100	0.043
Iron	--	300	2,600
Manganese	200	50	88

Notes:
Bold text indicates exceedance of NRWQC-Human Health - Water + Organisms
Shading indicates exceedance of Adjusted Tap Water RSLs
RSLs were adjusted for noncarcinogens to account for exposure to multiple constituents
1 - NC2B-SW-Human Health and NC2B-SW-Water Supply were combined to show the most conservative criteria
2 - NRWQC-Human Health - Water+ Organisms and NRWQC-Human Health Organisms were combined to show the most conservative criteria
J - Analyte present, value may or may not be accurate or precise
U - The material was analyzed for, but not detected
µg/l - Micrograms per liter

Legend
- PA/SI Surface Water Sample Locations
- Creek
- UXO-21
- Phase I Investigation Area
- Phase II Investigation Area
- Jurisdictional Wetlands

N

0 75 150 300 Feet

1 inch = 150 feet

Figure 2-6
Phase II Surface Water Exceedances
Site UXO-21 Expanded SI Report
MCB CamLej
North Carolina

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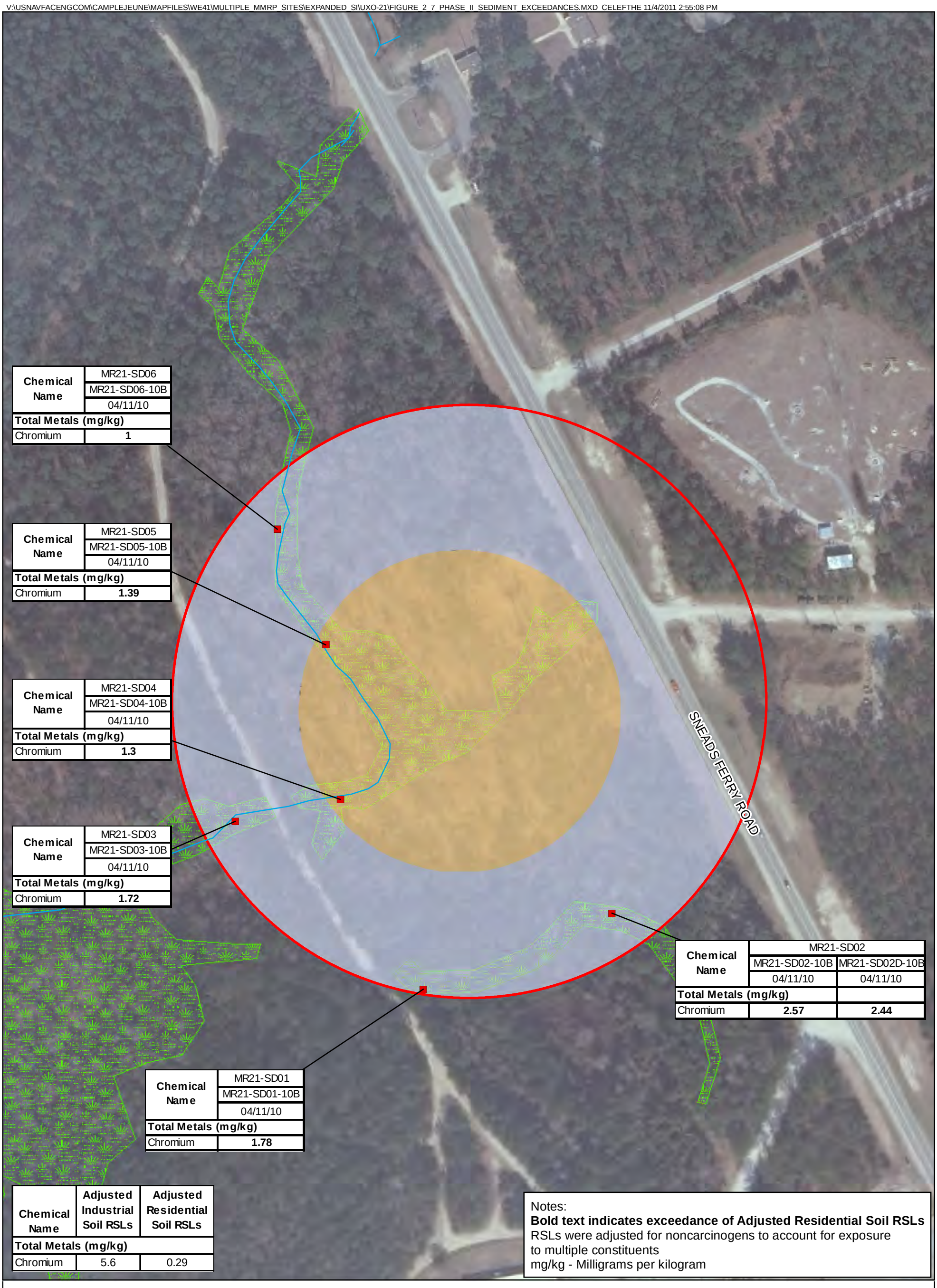

Chemical Name	MR21-SD06
	MR21-SD06-10B
	04/11/10
Total Metals (mg/kg)	
Chromium	**1**

Chemical Name	MR21-SD05
	MR21-SD05-10B
	04/11/10
Total Metals (mg/kg)	
Chromium	**1.39**

Chemical Name	MR21-SD04
	MR21-SD04-10B
	04/11/10
Total Metals (mg/kg)	
Chromium	**1.3**

Chemical Name	MR21-SD03
	MR21-SD03-10B
	04/11/10
Total Metals (mg/kg)	
Chromium	**1.72**

Chemical Name	MR21-SD02	
	MR21-SD02-10B	MR21-SD02D-10B
	04/11/10	04/11/10
Total Metals (mg/kg)		
Chromium	**2.57**	**2.44**

Chemical Name	MR21-SD01
	MR21-SD01-10B
	04/11/10
Total Metals (mg/kg)	
Chromium	**1.78**

Chemical Name	Adjusted Industrial Soil RSLs	Adjusted Residential Soil RSLs
Total Metals (mg/kg)		
Chromium	5.6	0.29

Notes:
Bold text indicates exceedance of Adjusted Residential Soil RSLs
RSLs were adjusted for noncarcinogens to account for exposure to multiple constituents
mg/kg - Milligrams per kilogram

Legend
- PA/SI Sediment Sample Locations
- Creek
- UXO-21
- Jurisdictional Wetlands
- New Road
- Phase I Investigation Area
- Phase II Investigation Area

N

0 75 150 300 Feet

1 inch = 150 feet

Figure 2-7
Phase II Sediment Exceedances
Site UXO-21 Expanded SI Report
MCB CamLej
North Carolina

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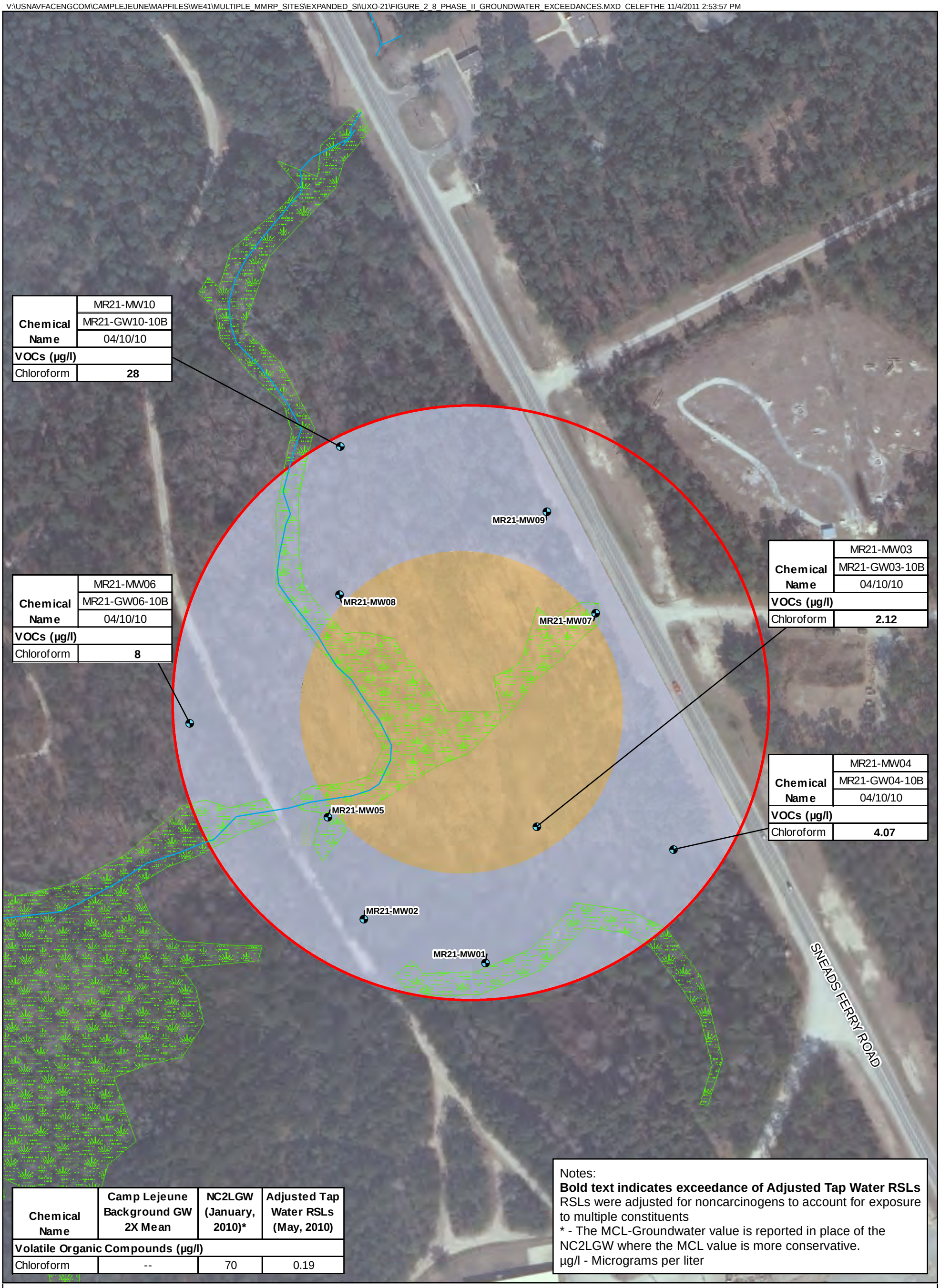

Chemical Name	MR21-MW10
	MR21-GW10-10B
	04/10/10
VOCs (µg/l)	
Chloroform	**28**

Chemical Name	MR21-MW06
	MR21-GW06-10B
	04/10/10
VOCs (µg/l)	
Chloroform	**8**

Chemical Name	MR21-MW03
	MR21-GW03-10B
	04/10/10
VOCs (µg/l)	
Chloroform	**2.12**

Chemical Name	MR21-MW04
	MR21-GW04-10B
	04/10/10
VOCs (µg/l)	
Chloroform	**4.07**

Chemical Name	Camp Lejeune Background GW 2X Mean	NC2LGW (January, 2010)*	Adjusted Tap Water RSLs (May, 2010)
Volatile Organic Compounds (µg/l)			
Chloroform	--	70	0.19

Notes:
Bold text indicates exceedance of Adjusted Tap Water RSLs
RSLs were adjusted for noncarcinogens to account for exposure to multiple constituents
* - The MCL-Groundwater value is reported in place of the NC2LGW where the MCL value is more conservative.
µg/l - Micrograms per liter

Legend
- Permanent Monitoring Well Location
- Creek
- UXO-21
- Jurisdictional Wetlands
- Phase I Investigation Area
- Phase II Investigation Area

N

0 75 150 300 Feet

1 inch = 150 feet

Figure 2-8
Phase II Groundwater Exceedances
Site UXO-21 Expanded SI Report
MCB CamLej
North Carolina

CH2MHILL

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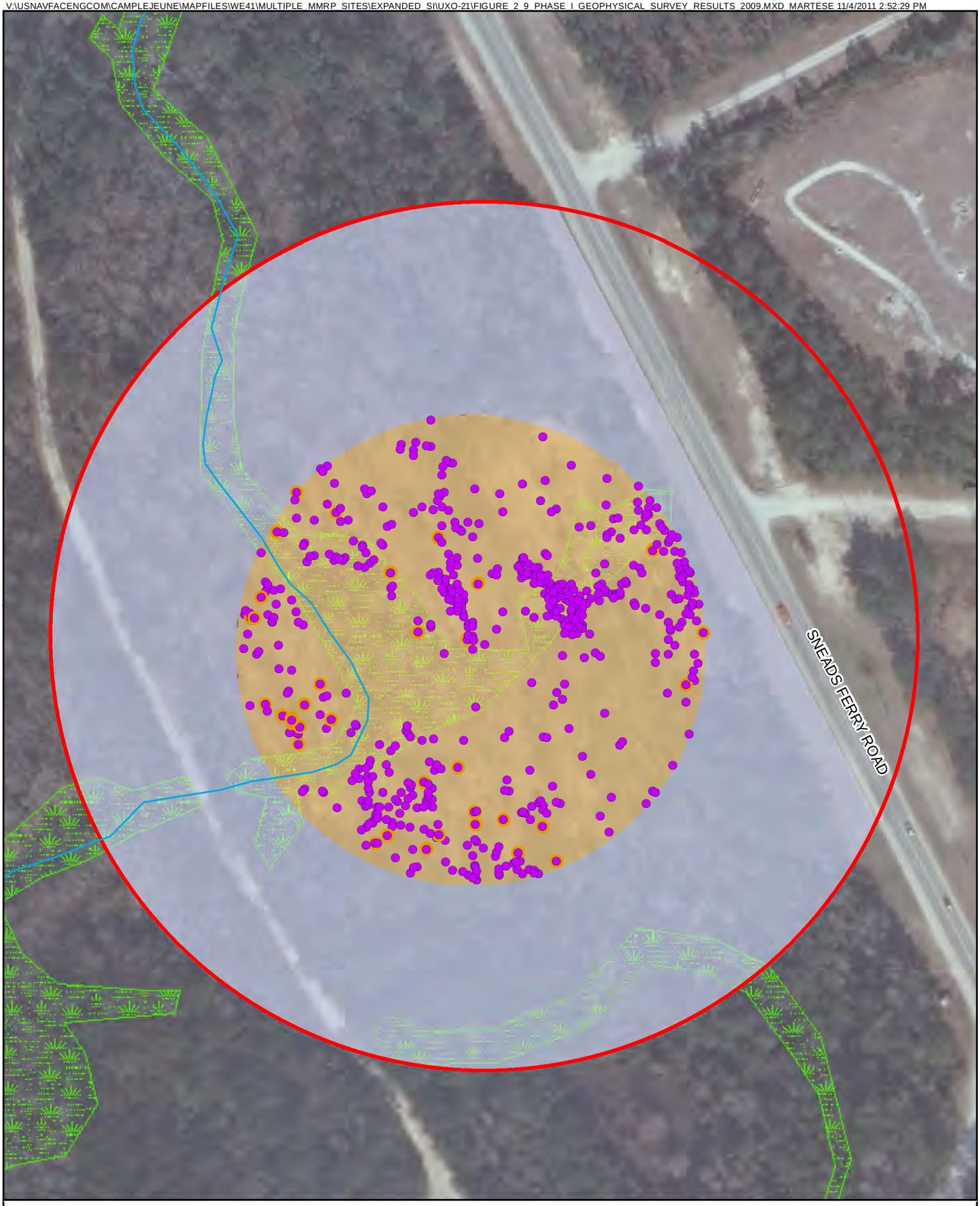

Legend

- Investigated Anomaly
- Investigated Anomaly-MPPEH
- Creek
- UXO-21
- Phase I Investigation Area
- Phase II Investigation Area
- Jurisdictional Wetlands

N

0 75 150 Feet

1 inch = 150 feet

Figure 2-9
Phase I Geophysical Survey Results (2009)
Site UXO-21 Expanded SI Report
MCB CamLej
North Carolina

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Generated by: ***David Seed/RDU*** Checked by: ***Dan Tomczak/RDU***

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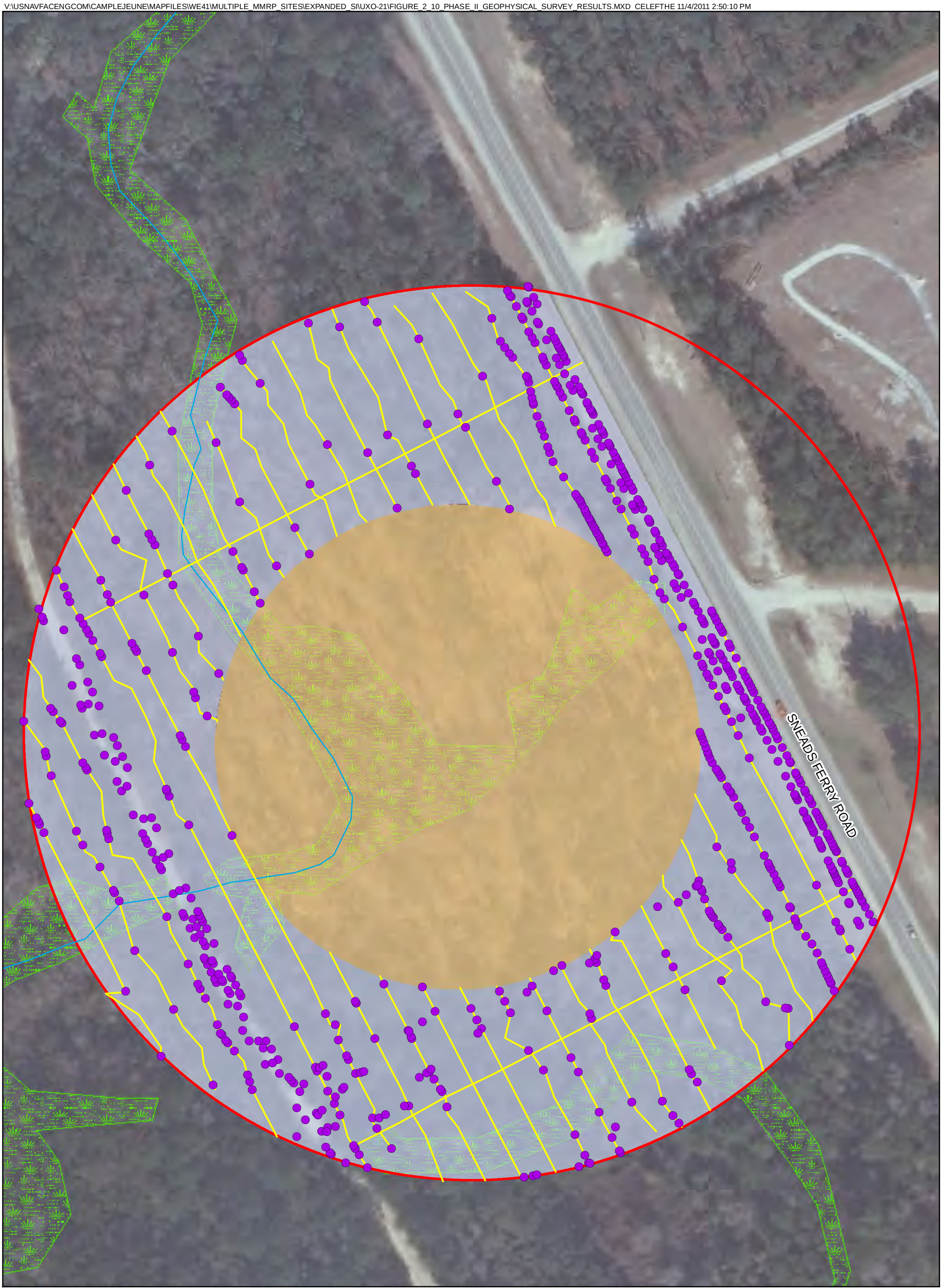

Legend

- Geophysical Anomaly
- Geophysical Survey Transects (2010)
- Creek
- UXO-21
- Phase I Investigation Area
- Phase II Investigation Area
- Jurisdictional Wetlands

N

0 50 100 200 Feet

1 inch = 100 feet

Figure 2-10
Phase II Geophysical Survey Results (2010)
Site UXO-21 Expanded SI Report
MCB CamLej
North Carolina

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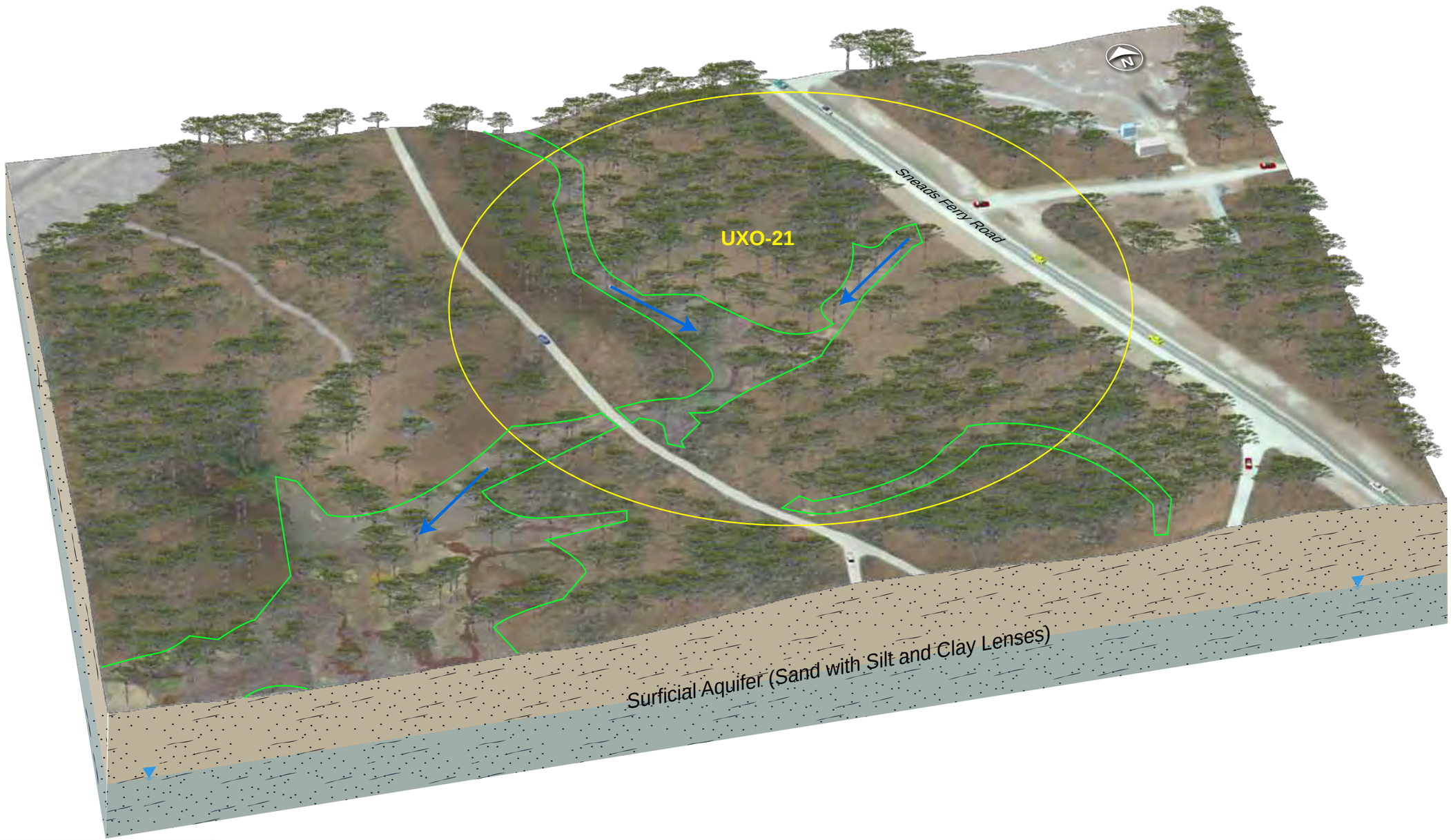

LEGEND

- Former Pistol Range
- Groundwater Table
- Surface Water Flow Direction
- Surficial Aquifer
- Sand with Silt And Clay Lenes

FIGURE 2-11
Site Conditions Summary
UXO-21 Expanded SI Report
MCB CamLej
North Carolina

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SECTION 3

Field Investigation Activities

The Expanded SI field investigation activities at Site UXO-21 were conducted during July and August 2011. Field activities were conducted in accordance with the Expanded SI Work Plan, Munitions Response Master Project Plan, and the UXO-21 ESS. The technical approach was developed by the MCB CamLej Tier I Partnering Team, which consists of representatives from the Department of the Navy (Navy), MCB CamLej, USEPA Region 4, and NCDENR.

3.1 Site Preparation and Support

3.1.1 MEC Avoidance

Because of the potential presence of MEC, avoidance procedures were implemented in accordance with the UXO-21 ESS (CH2M HILL, 2009). Qualified UXO technicians provided MEC escort and avoidance services to the surveying and vegetation clearance subcontractors, in accordance with the health and safety plan (CH2M HILL, 2011b, Appendix A).

3.1.2 Surveying

LDSI, Inc., of Charlotte, North Carolina, was subcontracted to place surveying pin flags along the center lines of the PA/SI Phase II DGM corridors in order to guide the vegetation clearing activities conducted during the Expanded SI.

3.1.3 Vegetation Clearing

Mid-Atlantic Drilling, Inc., was subcontracted to clear areas of brush and vegetative cover where required to prevent interference with the use of geophysical equipment. The undergrowth was cleared using a mulching-cutting machine along the same DGM transects as were used in Phase II of the PA/SI. Vegetation less than 3 inches in diameter was cut to within 6 inches of ground surface to allow sufficient area for DGM activities. Cut vegetation was mulched and left in place.

3.1.4 MEC Intrusive Investigation Activities

The MEC intrusive investigation was focused on the geophysical anomalies identified during the DGM survey. The DGM survey of the Phase II area covered approximately 11 percent (1.06 acres) of the 12-acre Phase II area and identified 738 geophysical anomalies for intrusive investigation (**Figure 3-1**). The following field activities were conducted in accordance with the ESS and the Expanded SI Work Plan in August 2011:

- Reacquisition of the geophysical anomalies identified during the DGM survey and representing potential subsurface MEC
- Manual excavation and identification of the sources of anomalies representing potential subsurface MEC
- Removal verification and excavation backfilling
- Disposal of MEC and MPPEH

At Site UXO-21, USAE identified the locations of the 738 geophysical anomalies with labeled pin flags placed within approximately 1 foot (north) of each anomaly. The intrusive investigation team then identified all 738 subsurface geophysical anomalies for excavation using an EM61 metal detector, Whites XLT metal detector, and/or a Schonstedt GA-52Cx magnetometer.

The MEC intrusive investigation of 100 percent of the anomalies representing potential subsurface MEC at Site UXO-21 was conducted in August 2011. Excavation of all anomalies selected as representing potential subsurface MEC was performed by USAE, to a depth of 2 feet bgs. The UXO teams were composed of at least one UXO Technician III and one UXO Technician II, and additional UXO technicians to complete the investigation team. Small hand tools, such as shovels, spades, trowels, and pry bars, were used to access the source anomaly. If the

item did not appear to be ordnance related, it was moved to the non-MPPEH scrap metal collection point. If the item was categorized as MEC, the item was left in place and flagged until it was properly disposed. If the item was suspected to be MPPEH, it was either left in place for detonation or moved to the MPPEH collection point. After the 100 percent inspection and 100 percent re-inspection of the MPPEH was completed, the material documented as safe (MDAS) was ready to be disposed of offsite. Once the item was removed, the excavation area was rechecked with the EM61 to ensure all anomaly source material had been removed. Approximately 50 pounds of MDAS were collected and placed in a 55-gallon drum. The MDAS will be disposed of at a qualified smelter/recycler upon completion of all the MMRP sites under this contract. A copy of the DD Form 1328-1A for this material can be found in **Appendix B**. Approximately 1,200 pounds of non-MPPEH metallic debris (such as scrap metal and/or cultural debris) was collected during the intrusive investigation.

Quality control (QC) inspections were performed by the Unexploded Ordnance Quality Control Specialist (UXOQCS) during fieldwork and consisted of checking 10 percent of the intrusively investigated anomaly locations using an EM61 to determine if all detectable metallic items had been removed. Additional quality assurance (QA)/QC removal verification requirements and analysis were followed as described in the Expanded SI Work Plan. Both QC seeds buried onsite during the 2010 DGM activities were recovered.

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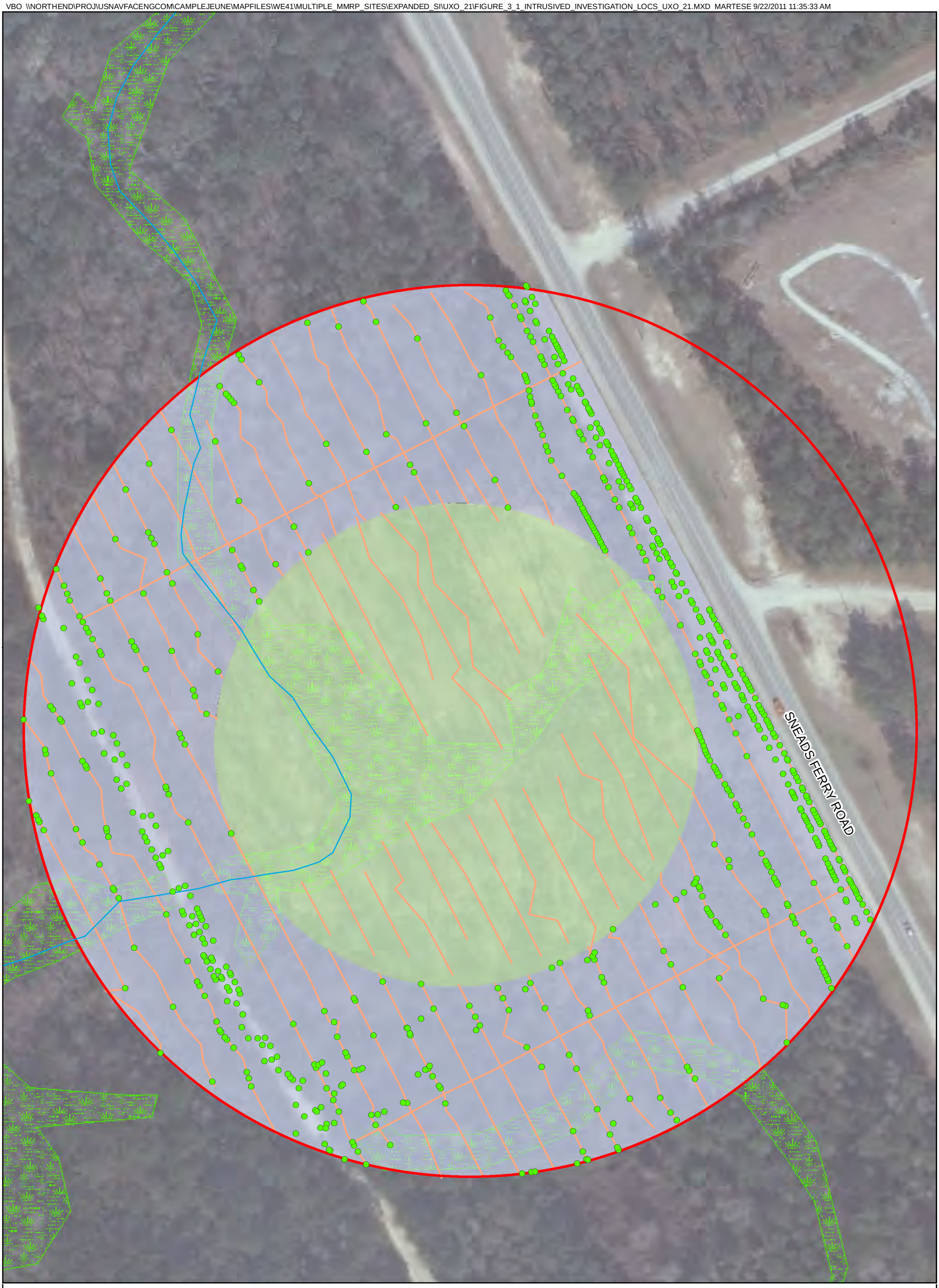

Legend

- Geophysical Anomaly (greater than 3 mV)(EM61-MK2)
- Surface Water
- DGM Transects
- Jurisdictional Wetlands
- Site UXO-21 Boundary
- Phase I Investigation Area
- Phase II Investigation Area

N

0 50 100 200 Feet

1 inch = 100 feet

Figure 3-1
Intrusive Investigation Locations
Site UXO-21 Expanded SI Report
MCB CamLej
North Carolina

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SECTION 4

Intrusive Investigation Results

During the Phase I investigation, 36 of the 569 geophysical anomaly locations investigated were determined to be MEC or MPPEH. **Figure 4-1** presents the location of MEC/MPPEH found during the Phase I investigation, and the MEC/MPPEH items found are as follows:

- (1) M22A1 Ground Illumination Signal (MEC)
- (1) M27A1B1 Projectile Air Burst Simulator (MEC)
- (14) Grenade, Rifle, Star, Cluster, Green, M20A1
- (2) Grenade, Hand, Practice, Standard, MKII
- (1) Projectile, 40mm, Ground Marker, Green Smoke, M715
- (2) Expended rifle grenade
- (3) Expended rifle grenade body
- (12) Tail Boom

During the Phase II investigation, 27 of the 738 geophysical anomaly locations were determined to be MEC/MPPEH and the complete intrusive investigation results are documented in **Appendix C**. One MEC item, a Signal, Ground, Cluster, Red Star, M52A1 was found. **Figure 4-2** presents the location of MEC/MPPEH found during the Phase II investigation (excluding small arms cartridge casings). The MEC/MPPEH items and the corresponding number of locations where they were found are as follows:

- (1) Signal, Ground, Cluster, Red Star, M52A1 (MEC)
- (1) 3.5-inch rocket motor (M28 or M29)
- (7) Signal, Ground, Green Star, Cluster, M20A1
- (1) MK II, Hand, Practice
- (3) M19 Illumination Rifle Grenade
- (1) Hand, Smoke AN-M8
- (12)Expended cartridge cases of various calibers, small arms (33 items total)
- (1) Grenade spoon

Blow-in-place (BIP) was conducted on the M52A1, Signal, Ground, Cluster, Red Star MEC item. In addition and in the same location, the 3.5-inch rocket motor was detonated. Two post-detonation surface soil samples were collected from the detonation location, one sample from inside the crater and another from the area surrounding the crater. The sample from inside the crater was collected using the previously described TR-02-1 approach (Thiboutot, Ampleman, and Hewitt, 2002). The surface soil sample from outside the crater was collected utilizing the incremental sampling method, in accordance with standard operating procedure in the MRP Master Project Plan (CH2M HILL, 2008, Appendix C).

The samples were transferred into 4-ounce glass jars, packed into coolers with ice, and sent under chain-of-custody control to the contracted laboratories for analysis. The samples were sent to GEL Laboratories, Inc., of Charleston, South Carolina, for the analysis of explosives residues, including PETN, nitroglycerin (SW-846 USEPA Method 8330), and perchlorate (SW-846 USEPA Method 6850) and to ENCO Lab, of Jacksonville, Florida, for the analysis of TAL metals, including mercury (SW-846 USEPA Methods 6010C and 7471B). **Table 4-1** contains the analytical results for detected compounds. All analytical results are available in **Appendix D**. Explosives residues, including PETN, nitroglycerin, and perchlorate were not detected. The concentrations of all detected metals were less than 2 times the mean BBG.

TABLE 4-1

Post-Detonation Surface Soil Analytical Results

Sample ID	Camp Lejeune Background 2X Mean	NC SSL (January, 2010)*	Adjusted Industrial Soil RSLs (May, 2011)	Adjusted Residential Soil RSLs (May, 2011)	MR21-SS41D-OC-11C	MR21-SS41-IC-11C	MR21-SS41-OC-11C
Sample Date					8/25/11	8/25/11	8/25/11
Chemical Name							
Explosives Residues and Perchlorate (UG/KG)							
No Detections							
Total Metals (MG/KG)							
Aluminum	5487	--	99000	7700	2,970 E	2,120 E	2,400 E
Barium	14.5	580	19000	1500	4.75	3.97	4.94
Beryllium	0.103	--	200	16	0.0173 J	0.0153 J	0.0186 J
Cadmium	0.033	3	80	7	0.165 U	0.0203 J	0.139 U
Calcium	--	--	--	--	287	247	314
Chromium	6.05	3.8	5.6	0.29	1.72	1.36	1.52
Cobalt	0.294	--	30	2.3	0.116 J	0.102 J	0.12 J
Copper	4.83	700	4100	310	0.5 J	0.525 J	0.569 J
Iron	3245	150	72000	5500	931 BE	716 BE	821 BE
Lead	12.3	270	800	400	2.14	1.95	2.19
Magnesium	238	--	--	--	72.2	61.3	71.1
Manganese	13.7	65	2300	180	4.43	4.18	6.43
Nickel	1.21	130	2000	150	0.951	0.718 J	0.799
Potassium	116	--	--	--	58	73.3	63.5
Sodium	80.9	--	--	--	8.23 J	13.1 J	9.74 J
Vanadium	8.9	--	520	39	2.99	2.27	2.63
Zinc	10.8	1200	31000	2300	0.885	0.894	1.23

Notes:

Bold box indicates exceedance of NC SSL

Bold text indicates exceedance of Adjusted Industrial Soil RSLs

Shading indicates exceedance of two times the mean base background concentration for surface soil

Underline indicates exceedance of Adjusted Residential Soil RSLs

* The MCL-Based SSL value is reported in place of the NCSSL where the MCL value is more conservative.

RSLs were adjusted for noncarcinogens to account for exposure to multiple constituents

B - The analyte was detected in the associated method blank

E - Concentration exceeds calibration range of the instrument

J - Analyte present. Value may or may not be accurate or precise

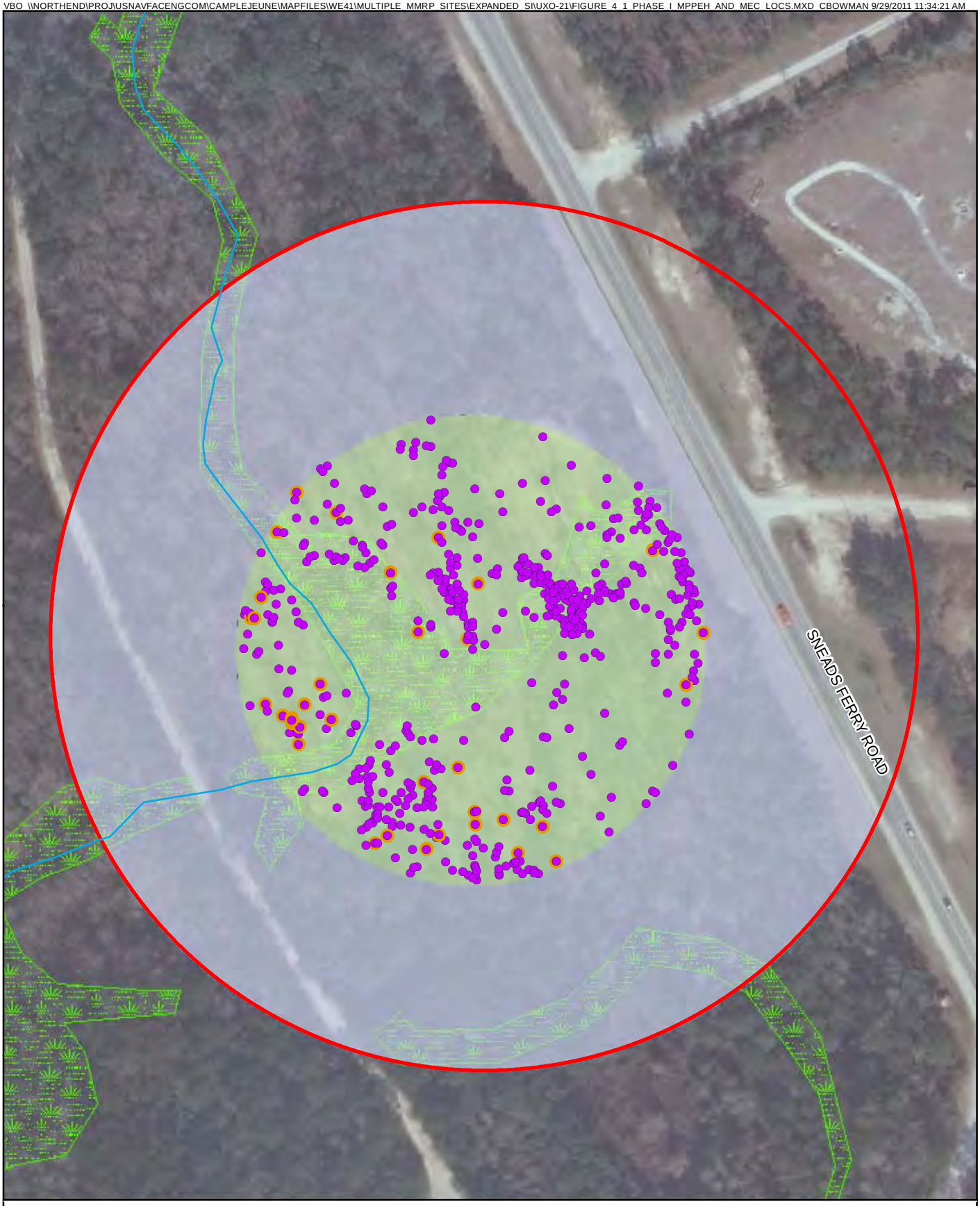
MG/KG - Milligrams per kilogram

Q - The RPD and/or percent recovery exceeded limits in the associated laboratory control sample (LCS) and/or its duplicate.

U - The material was analyzed for, but not detected

UG/KG - Micrograms per kilogram

VBO \\NORTHEND\PROJ\USNAVFACENGCOM\CAMPLEJEUNE\MAPFILES\WE41\MULTIPLE_MMRP_SITES\EXPANDED_SI\UXO-21\FIGURE_4_1_PHASE_I_MPPEH_AND_MEC_LOCS.MXD CBOWMAN 9/29/2011 11:34:21 AM



Legend

- Investigated Anomaly
- Investigated Anomaly-MPPEH
- Surface Water
- Site UXO-21 Boundary
- Phase I Investigation Area
- Phase II Investigation Area
- Jurisdictional Wetlands

N

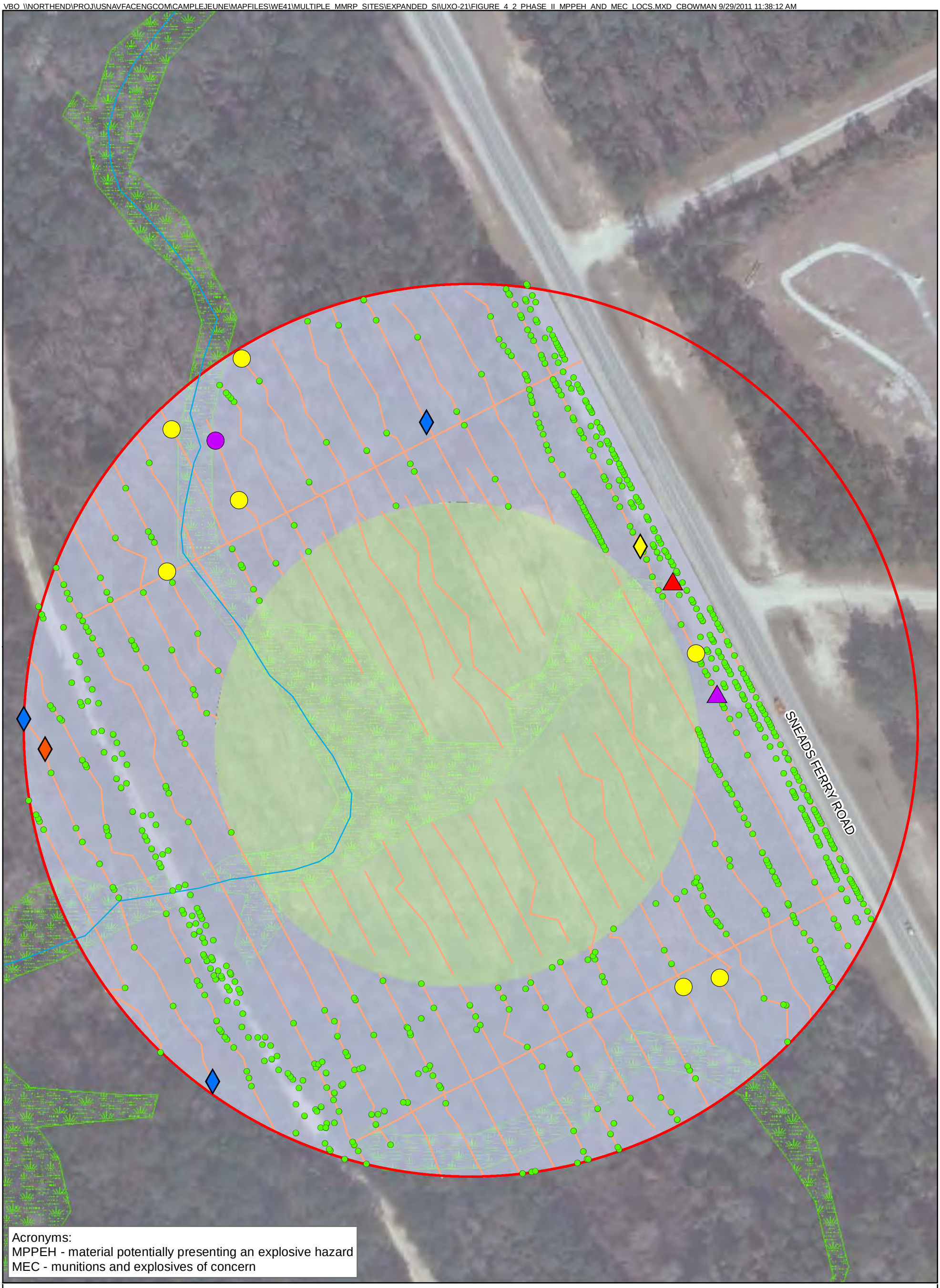
0 75 150 Feet

1 inch = 150 feet

Figure 4-1
Locations of MPPEH and MEC (Phase I Investigation)
Site UXO-21 Expanded SI Report
MCB CamLej
North Carolina

CH2MHILL

VBO \\NORTHEND\PROJ\USNAVFACENGCOM\CAMPLEJEUNE\MAPFILES\WE41\MULTIPLE_MMRP_SITES\EXPANDED_SI\UXO-21\FIGURE_4_2_PHASE_II_MPPEH_AND_MEC_LOCS.MXD CBOWMAN 9/29/2011 11:38:12 AM



Legend

- Geophysical Anomaly (greater than 3 mV)(EM61-MK2)

MEC

- M52A1, Signal, Ground, Cluster, Red

MPPEH

- M20A1, Grenade, Rifle, Star, Cluster, Green
- Hand, Smoke AN-M8
- M19 Illumination Rifle Grenade
- 3.5-Inch Rocket Motor
- MKII, Hand, Practice, Standard
- Other (Grenade Spoon)
- Surface Water
- DGM Transects
- Jurisdictional Wetlands
- Site UXO-21 Boundary
- Phase I Investigation Area
- Phase II Investigation Area

N

0 50 100 200 Feet

1 inch = 100 feet

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Figure 4-2
Locations of MPPEH and MEC (Phase II Investigation)
Site UXO-21 Expanded SI Report
MCB CamLej
North Carolina

SECTION 5

Conclusions and Recommendations

This section presents conclusions and provides recommendations for Site UXO-21 based upon the PA/SI and Expanded SI findings.

5.1 Conclusions

5.1.1 Environmental Investigation

Analytical results from soil, surface water, sediment, and groundwater samples collected during the PA/SI were compared to regulatory screening criteria and evaluated for potential exposure risks to human health and the environment. No unacceptable human health or ecological risks were identified from potential exposure to site media.

5.1.2 MEC Intrusive Investigation

MPPEH items discovered at Site UXO-21 are not consistent with the documented historical usage of this site as a former Gas Chamber, indicating that other unidentified munitions-related activities occurred at or in the vicinity of Site UXO-21.

Overlapping and adjacent ranges, including the F-6 Live Grenade Range, Combat Area/ Impact Area, and F-13 Field Firing Range, may have impacted Site UXO-21. The discovery of grenade-related MPPEH items adjacent to Sneads Ferry Road indicates that F-6 Live Grenade Range activities may have extended to the west of Sneads Ferry road. The pyrotechnic items (flares, smoke grenades) found may be a result of maneuver/training also extending west of Sneads Ferry Road. The activities may have included the presence of an unidentified 3.5-inch rocket range, or undocumented use of 3.5-inch rockets in the Site UXO-21 area.

The discovery of several MPPEH items on and near the northwestern, western, and southwestern boundaries of the site indicates that munitions-related activities may have occurred beyond the current site boundary that was defined in the *Range Identification and Preliminary Range Assessment* (USACE, 2001a).

5.1.3 Post-Detonation Sampling

Post-detonation surface soil samples were collected inside and outside of the detonation crater, and the results showed no contamination of the surrounding soil.

5.2 Recommendations

The geophysical survey and intrusive investigation were completed throughout all accessible portions of the Phase I investigation area; therefore, no further investigation is recommended for the Phase I investigation area. If MILCON is planned in the Phase II area, 100% intrusive investigation is recommended.

Additional DGM and intrusive investigation is recommended to define the extent of MEC/MPPEH beyond the northwestern, western, and southwestern boundaries of Site UXO-21. DGM and intrusive investigation are also recommended to evaluate the nature and extent of possible MEC/MPPEH in the portion of UXO-21 that lies east of Sneads Ferry Road.

No further action is recommended for the investigation of environmental contamination in site media at this time. However, this decision should be re-evaluated based on the results of further investigations for MEC/MPPEH.

SECTION 6

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Appendix A
PA/SI Data Summary Tables

CTO-169
Camp Lejeune - Milcon Area Gas Chamber
Internally Validated Soil Raw Analytical Results
July 2007

Sample ID	GC-IS01-0-1-07C	GC-IS01-5-8-07C	GC-IS02-0-1-07C	GC-IS02-5-10-07C	GC-IS03-0-1-07C	GC-IS03-5-8-07C	GC-IS04-0-1-07C	GC-IS04-6-8-07C	GC-IS05-0-1-07C	GC-IS05-2-4-07C	GC-IS06-0-1-07C	GC-IS06-3-5-07C	GC-IS07-0-1-07C	GC-IS07-10-12-07C	GC-IS08-0-1-07C	GC-IS08-6-8-07C	GC-IS09-0-1-07C	GC-IS09-8-10-07C	GC-IS010-0-1-07C	GC-IS010-3-5-07C
Sample Date	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/25/07	7/25/07	7/25/07	7/25/07
Chemical Name																				
Volatile Organic Compounds (ug/kg)																				
1,1,1-Trichloroethane	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
1,1,2,2-Tetrachloroethane	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
1,1,2-Trichloro-1,2,2-trifluoroethane(Freon-113)	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
1,1,2-Trichloroethane	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
1,1-Dichloroethane	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
1,1-Dichloroethene	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
1,2,4-Trichlorobenzene	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
1,2-Dibromo-3-chloropropane	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
1,2-Dibromoethane	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
1,2-Dichlorobenzene	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
1,2-Dichloroethane	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
1,2-Dichloropropane	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
1,3-Dichlorobenzene	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
1,4-Dichlorobenzene	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
2-Butanone	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	10	59 J	11 U	11 U	5.7 J	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
2-Hexanone	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
4-Methyl-2-pentanone	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Acetone	40 J	7.2 J	17 J	10 U	7.5 J	13 J	12 J	7.3 J	280 J	190 J	16 J	11 U	83	11 U	33 J	11 U	12 U	24	23	7.7
Benzene	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Bromodichloromethane	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Bromoform	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Bromomethane	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Carbon disulfide	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Carbon tetrachloride	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Chlorobenzene	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Chloroethane	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Chloroform	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Chloromethane	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
cis-1,2-Dichloroethene	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
cis-1,3-Dichloropropene	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Cyclohexane	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Dibromochloromethane	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Dichlorodifluoromethane (Freon-12)	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Ethylbenzene	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Isopropylbenzene	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Methyl acetate	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 J	12 U	10 U	11 U	7.5 U
Methylcyclohexane	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Methylene chloride	15	7.3 J	8.6 J	8.6 J	8.5 J	8.5 J	12 U	9.8 U	5.7 J	11 U	11 U	11 U	10 U	11 U	7.6 J	8 J	12 U	10	11 U	6.8 J
Methyl-tert-butyl ether (MTBE)	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Styrene	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Tetrachloroethene	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Toluene	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	4.6 J	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
trans-1,2-Dichloroethene	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
trans-1,3-Dichloropropene	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Trichloroethene	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Trichlorofluoromethane(Freon-11)	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Vinyl chloride	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Xylene, total	14 U	10 U	14 U	10 U	13 U	11 U	12 U	9.8 U	9.1 U	11 U	11 U	11 U	10 U	11 U	11 U	11 U	12 U	10 U	11 U	7.5 U
Semivolatile Organic Compounds (ug/kg)																				
1,1-Biphenyl	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
2,2'-Oxybis(1-chloropropane)	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
2,4,5-Trichlorophenol	920 U	900 U	1000 U	960 U	900 U	930 U	890 U	980 U	1000 U	1300 U	940 U	880 U	1000 U	880 U	1100 U	940 U	1000 U	950 U	920 U	980 U
2,4,6-Trichlorophenol	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
2,4-Dichlorophenol	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
2,4-Dimethylphenol	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
2,4-Dinitrophenol	920 U	900 U	1000 U	960 U	900 U	930 U	890 U	980 U	1000 U	1300 U	940 U	880 U	1000 U	880 U	1100 U	940 U	1000 U	950 U	920 U	980 U
2,4-Dinitrotoluene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
2,6-Dinitrotoluene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
2-Chloroacetophenone - CN	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
2-Chlorobenzalmalononitrile	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
2-Chloronaphthalene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
2-Chlorophenol	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
2-Methylnaphthalene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
2-Methylphenol	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
2-Nitroaniline	920 U	900 U	1000 U	960 U	900 U	930 U	890 U	980 U	1000 U	1300 U	940 U	880 U	1000 U	880 U	1100 U	940 U	1000 U	950 U	920 U	980 U
2-Nitrophenol	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
3,3'-Dichlorobenzidine	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
3-Nitroaniline	920 U	900 U	1000 U	960 U	900 U	930 U	890 U	980 U	1000 U	1300 U	940 U	880 U	1000 U	880 U	1100 U	940 U	1000 U	950 U	920 U	980 U
4,6-Dinitro-2-methylphenol	920 U	900 U	1000 U	960 U	900 U	930 U	890 U	980 U	1000 U	1300 U	940 U	880 U	1000 U	880 U	1100 U	940 U	1000 U	950 U	920 U	980 U
4-Bromophenyl-phenylether	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
4-Chloro-3-methylphenol	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
4-Chloroaniline	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
4-Chlorophenyl-phenylether	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
4-Methylphenol	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
4-Nitroaniline	920 U	900 U	1000 U	960 U	900 U	930 U	890 U	980 U	1000 U	1300 U	940 U	880 U	1000 U	880 U	1100 U	940 U	1000 U	950 U	920 U	980 U
4-Nitrophenol	920 U	900 U	1000 U	960 U	900 U	930 U	890 U	980 U	1000 U	1300 U	940 U	880 U	1000 U	880 U	1100 U	940 U	1000 U	950 U	920 U	980 U
Acenaphthene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Acenaphthylene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Acetophenone	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Anthracene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Atrazine	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Benzaldehyde	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Benzo(a)anthracene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Benzo(a)pyrene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Benzo(b)fluoranthene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Benzo(g,h,i)perylene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Benzo(k)fluoranthene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
bis(2-Chloroethoxy)methane	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
bis(2-Chloroethyl)ether	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
bis(2-Ethylhexyl)phthalate	370 U	360 U	47 J	380 U	360 U	370 U	70 J	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	390 J	41 J	140 J	67 J
Butylbenzylphthalate	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U

CTO-169
Camp Lejeune - Milcon Area Gas Chamber
Internally Validated Soil Raw Analytical Results
July 2007

Sample ID	GC-IS01-0-1-07C	GC-IS01-5-8-07C	GC-IS02-0-1-07C	GC-IS02-5-10-07C	GC-IS03-0-1-07C	GC-IS03-5-8-07C	GC-IS04-0-1-07C	GC-IS04-6-8-07C	GC-IS05-0-1-07C	GC-IS05-2-4-07C	GC-IS06-0-1-07C	GC-IS06-3-5-07C	GC-IS07-0-1-07C	GC-IS07-10-12-07C	GC-IS08-0-1-07C	GC-IS08-6-8-07C	GC-IS09-0-1-07C	GC-IS09-8-10-07C	GC-IS010-0-1-07C	GC-IS010-3-5-07C
Sample Date	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/24/07	7/25/07	7/25/07	7/25/07	7/25/07
Chemical Name																				
Caprolactam	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Carbazole	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Chrysene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Dibenz(a,h)anthracene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Dibenzofuran	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Diethylphthalate	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Dimethyl phthalate	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Di-n-butylphthalate	37 J	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	43 J	370 U	77 J	380 U	370 U	390 U
Di-n-octylphthalate	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Fluoranthene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Fluorene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Hexachlorobenzene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Hexachlorobutadiene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Hexachlorocyclopentadiene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Hexachloroethane	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Indeno(1,2,3-cd)pyrene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Isophorone	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Naphthalene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Nitrobenzene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
n-Nitroso-di-n-propylamine	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
n-Nitrosodiphenylamine	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Pentachlorophenol	920 U	900 U	1000 U	960 U	900 U	930 U	890 U	980 U	1000 U	1300 U	940 U	880 U	1000 U	880 U	1100 U	940 U	1000 U	950 U	920 U	980 U
Phenanthrene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Phenol	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Pyrene	370 U	360 U	410 U	380 U	360 U	370 U	350 U	390 U	410 U	500 U	380 U	350 U	400 U	350 U	420 U	370 U	400 U	380 U	370 U	390 U
Total Metals (UG_G)																				
Aluminum	489	8080	519	9160	296	3630	4760	7200	3550	9710	273	2250	3060	1220	1070	5290	336 J	7100 J	970 J	1110 J
Antimony	4.9 U	4.5 U	5.2 U	5.1 U	4.9 U	4.6 U	4.7 U	4.8 U	5.6 U	6.4 U	4.9 U	4.7 U	5.4 U	4.5 U	5.8 U	4.7 U	5.5 U	0.27 J	4.8 U	5.2 U
Arsenic	0.24 J	0.8	0.86 U	0.52 J	0.81 U	0.2 J	0.43 J	0.4 J	0.36 J	0.69 J	0.81 U	0.78 U	0.62 J	0.22 J	0.35 J	0.35 J	0.91 U	0.3 J	0.2 J	0.87 U
Barium	7.4 J	9.8 J	3 J	13 J	3.7 J	6.9 J	4.3 J	8.4 J	13.5 J	43.7	4.2 J	4.8 J	7.4 J	2.7 J	9 J	7.8 J	2.9 J	10 J	4.2 J	2 J
Beryllium	0.017 J	0.062 J	0.43 U	0.066 J	0.41 U	0.024 J	0.044 J	0.071 J	0.13 J	0.49 J	0.41 U	0.025 J	0.032 J	0.017 J	0.48 U	0.048 J	0.46 U	0.057 J	0.4 U	0.44 U
Cadmium	0.037 J	0.38 U	0.021 J	0.42 U	0.023 J	0.025 J	0.39 U	0.4 U	0.089 J	0.083 J	0.035 J	0.39 U	0.45 U	0.38 U	0.033 J	0.4 U	0.46 U	0.41 U	0.4 U	0.44 U
Calcium	430	62.1 J	105 J	60.9 J	67.9 J	38.5 J	37.5 J	38.7 J	476	4110	111 J	35.1 J	194 J	29.2 J	209 J	50.1 J	78.1 J	60.7 J	71.8 J	35.4 J
Chromium	0.92	8.1	0.92	9.1	0.67 J	4.3	3.5	10	3.7	7.7	0.66 J	2.9	2.6	2	1.5	6.5	0.81 J	8.5	1.2	1.5
Cobalt	4.1 U	0.14 J	4.3 U	0.11 J	4.1 U	3.9 U	3.9 U	0.089 J	0.34 J	0.41 J	4.1 U	3.9 U	4.5 U	3.8 U	4.8 U	0.039 J	4.6 U	0.66 J	4 U	4.4 U
Copper	0.74 J	1.2 J	0.42 J	1.2 J	0.23 J	0.75 J	0.52 J	1.7 J	2.3 J	1.1 J	0.22 J	0.43 J	0.49 J	0.29 J	0.77 J	0.75 J	0.098 J	1.4 J	0.18 J	0.24 J
Iron	300	2310	290	1730	88.1	523	1350	1460	1320	4440	109	389	1630	356	542	1010	226 J	1800 J	155 J	166 J
Lead	13.3	4.3	2.5	3.7	1.4	3.1	2.9	4.1	4.9	7.2	1.6	2.7	5.1	2.1	4.7	3.5	3.1	3.6	2.4	1.9
Magnesium	74.9 J	209 J	24 J	215 J	22 J	117 J	61 J	217 J	80 J	152 J	18.1 J	78.1 J	74.7 J	58.7 J	61.6 J	156 J	20.2 J	197 J	29.1 J	40.9 J
Manganese	4.3	4.1	3.5	3.5	2.6	2.4	4.3	4.3	3.2	12.5	3.3	2.1	6.8	2.1	5.5	2.8	4	13.8	2	1.6
Mercury	0.038	0.03 J	0.0063 J	0.01 J	0.04	0.029 J	0.013 J	0.011 J	0.021 J	0.084	0.032 J	0.033 U	0.026 J	0.016 J	0.098	0.03 J	0.0075 J	0.021 J	0.037	0.026 J
Nickel	0.26 J	1.2 J	3.5 U	1.2 J	3.2 U	0.5 J	0.85 J	1.1 J	1.2 J	3.4 J	3.2 U	0.28 J	0.79 J	0.14 J	0.14 J	0.72 J	3.7 U	1.2 J	0.1 J	3.5 U
Potassium	40.5 J	233 J	28.8 J	270 J	19.4 J	112 J	37.9 J	333 J	66.8 J	83.5 J	21 J	121 J	58.7 J	97.9 J	57.5 J	249 J	27.8 J	243 J	28.6 J	44.2 J
Selenium	0.49 J	0.41 J	3 U	0.42 J	0.44 J	0.36 J	0.4 J	2.8 U	1 J	1.2 J	0.36 J	0.27 J	0.36 J	2.6 U	0.6 J	0.41 J	3.2 U	2.9 U	2.8 U	3.1 U
Silver	0.81 U	0.76 U	0.86 U	0.85 U	0.81 U	0.77 U	0.78 U	0.8 U	0.93 U	1.1 U	0.81 U	0.78 U	0.89 U	0.75 U	0.96 U	0.79 U	0.91 U	0.82 U	0.8 U	0.87 U
Sodium	68.5 J	67.8 J	66.3 J	59.4 J	60.5 J	57.2 J	56.5 J	63 J	63.2 J	86.5 J	57.4 J	55 J	63.9 J	53.6 J	64 J	59.7 J	58.6 J	82.3 J	65.7 J	75.3 J
Thallium	2 U	1.9 U	2.2 U	2.1 U	2 U	1.9 U	1.9 U	2 U	2.3 U	2.7 U	2 U	2 U	2.2 U	1.9 U	2.4 U	2 U	2.3 U	2.1 U	2 U	2.2 U
Vanadium	2.1 J	10.1	1.4 J	10.2	0.78 J	4.9	4.1	11	4.1 J	5 J	0.86 J	2.9 J	5.1	2.3 J	2.7 J	8.7	1.3 J	9.1	1.2 J	1.4 J
Zinc	5.8	3.5 J	1.9 J	4 J	1.4 J	2.4 J	1.9 J	3.9 J	6.8	4.8 J	1.7 J	2.3 J	2.8 J	2.2 J	4 J	3.2 J	3.1 J	4.2 J	3 J	2 J
Wet Chemistry (PCT)																				
% Solids	91	93	81	87	92	90	94	85	80	67	89	94	83	94	79	89	84	88	91	85
Dissolved Metals (UG_L)																				
Aluminum	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Iron	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Manganese	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Potassium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sodium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:
J - Analyte present; value may not be precise
NJ - Identification questionable due to poor resolution
R - Unreliable result
U - Analyte not detected
PCT - Percent
UG/G - Micrograms per gram
UG/KG - Micrograms per kilogram
NA - Not analyzed

CTO-169
Camp Lejeune - Milcon Area Gas Chamber
Internally Validated Groundwater Raw Analytical Results
July 2007

Sample ID	GC-TW02-07C	GC-TW05-07C	GC-TW08-07C
Sample Date	7/25/07	7/25/07	7/25/07
Chemical Name			
Volatile Organic Compounds (ug/kg)			
1,1,1-Trichloroethane	10 U	10 U	10 U
1,1,2,2-Tetrachloroethane	10 U	10 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane(Freon-113)	10 U	10 U	10 U
1,1,2-Trichloroethane	10 U	10 U	10 U
1,1-Dichloroethane	10 U	10 U	10 U
1,1-Dichloroethene	10 U	10 U	10 U
1,2,4-Trichlorobenzene	10 U	10 U	10 U
1,2-Dibromo-3-chloropropane	10 U	10 U	10 U
1,2-Dibromoethane	10 U	10 U	10 U
1,2-Dichlorobenzene	10 U	10 U	10 U
1,2-Dichloroethane	10 U	10 U	10 U
1,2-Dichloropropane	10 U	10 U	10 U
1,3-Dichlorobenzene	10 U	10 U	10 U
1,4-Dichlorobenzene	10 U	10 U	10 U
2-Butanone	10 U	10 U	10 U
2-Hexanone	10 U	10 U	10 U
4-Methyl-2-pentanone	10 U	10 U	10 U
Acetone	10 U	10 U	10 U
Benzene	10 U	10 U	10 U
Bromodichloromethane	10 U	10 U	10 U
Bromoform	10 U	10 U	10 U
Bromomethane	10 U	10 U	10 U
Carbon disulfide	10 U	10 U	10 U
Carbon tetrachloride	10 U	10 U	10 U
Chlorobenzene	10 U	10 U	10 U
Chloroethane	10 U	10 U	10 U
Chloroform	10 U	10 U	10 U
Chloromethane	10 U	10 U	10 U
cis-1,2-Dichloroethene	10 U	10 U	10 U
cis-1,3-Dichloropropene	10 U	10 U	10 U
Cyclohexane	10 U	10 U	10 U
Dibromochloromethane	10 U	10 U	10 U
Dichlorodifluoromethane (Freon-12)	10 U	10 U	10 U
Ethylbenzene	10 U	10 U	10 U
Isopropylbenzene	10 U	10 U	10 U
Methyl acetate	10 U	10 U	10 U
Methylcyclohexane	10 U	10 U	10 U
Methylene chloride	10 U	10 U	10 U
Methyl-tert-butyl ether (MTBE)	10 U	10 U	10 U
Styrene	10 U	10 U	10 U
Tetrachloroethene	10 U	10 U	10 U
Toluene	6.1 J	10 U	10 U
trans-1,2-Dichloroethene	10 U	10 U	10 U
trans-1,3-Dichloropropene	10 U	10 U	10 U
Trichloroethene	10 U	10 U	10 U
Trichlorofluoromethane(Freon-11)	10 U	10 U	10 U
Vinyl chloride	10 U	10 U	10 U
Xylene, total	10 J	10 U	10 U
Semivolatile Organic Compounds (ug/kg)			
1,1-Biphenyl	11 U	12 U	12 U
2,2'-Oxybis(1-chloropropane)	11 U	12 U	12 U
2,4,5-Trichlorophenol	28 U	29 U	29 U
2,4,6-Trichlorophenol	11 U	12 U	12 U
2,4-Dichlorophenol	11 U	12 U	12 U
2,4-Dimethylphenol	11 U	12 U	12 U
2,4-Dinitrophenol	28 U	29 U	29 U
2,4-Dinitrotoluene	11 U	12 U	12 U
2,6-Dinitrotoluene	11 U	12 U	12 U
2-Chloroacetophenone - CN	11 U	12 U	12 U
2-Chlorobenzalmalononitrile	11 U	12 U	12 U
2-Chloronaphthalene	11 U	12 U	12 U
2-Chlorophenol	11 U	12 U	12 U
2-Methylnaphthalene	11 U	12 U	12 U
2-Methylphenol	11 U	12 U	12 U
2-Nitroaniline	28 U	29 U	29 U
2-Nitrophenol	11 U	12 U	12 U
3,3'-Dichlorobenzidine	11 U	12 U	12 U
3-Nitroaniline	28 U	29 U	29 U
4,6-Dinitro-2-methylphenol	28 U	29 U	29 U
4-Bromophenyl-phenylether	11 U	12 U	12 U
4-Chloro-3-methylphenol	11 U	12 U	12 U
4-Chloroaniline	11 U	12 U	12 U
4-Chlorophenyl-phenylether	11 U	12 U	12 U
4-Methylphenol	11 U	12 U	12 U
4-Nitroaniline	28 U	29 U	29 U
4-Nitrophenol	28 U	29 U	29 U
Acenaphthene	11 U	12 U	12 U
Acenaphthylene	11 U	12 U	12 U
Acetophenone	11 U	12 U	12 U
Anthracene	11 U	12 U	12 U
Atrazine	11 U	12 U	12 U
Benzaldehyde	11 U	12 U	12 U
Benzo(a)anthracene	11 U	12 U	12 U
Benzo(a)pyrene	11 U	12 U	12 U
Benzo(b)fluoranthene	11 U	12 U	12 U
Benzo(g,h,i)perylene	11 U	12 U	12 U
Benzo(k)fluoranthene	11 U	12 U	12 U
bis(2-Chloroethoxy)methane	11 U	12 U	12 U
bis(2-Chloroethyl)ether	11 U	12 U	12 U
bis(2-Ethylhexyl)phthalate	3.3 J	2.9 J	2 J
Butylbenzylphthalate	11 U	12 U	12 U
Caprolactam	11 U	12 U	12 U

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Sample ID	GC-TW02-07C	GC-TW05-07C	GC-TW08-07C
Sample Date	7/25/07	7/25/07	7/25/07
Chemical Name			
Carbazole	11 U	12 U	12 U
Chrysene	11 U	12 U	12 U
Dibenz(a,h)anthracene	11 U	12 U	12 U
Dibenzofuran	11 U	12 U	12 U
Diethylphthalate	11 U	12 U	12 U
Dimethyl phthalate	11 U	12 U	12 U
Di-n-butylphthalate	11 U	12 U	12 U
Di-n-octylphthalate	11 U	12 U	12 U
Fluoranthene	11 U	12 U	12 U
Fluorene	11 U	12 U	12 U
Hexachlorobenzene	11 U	12 U	12 U
Hexachlorobutadiene	11 U	12 U	12 U
Hexachlorocyclopentadiene	11 U	12 U	12 U
Hexachloroethane	11 U	12 U	12 U
Indeno(1,2,3-cd)pyrene	11 U	12 U	12 U
Isophorone	11 U	12 U	12 U
Naphthalene	11 U	12 U	12 U
Nitrobenzene	11 U	12 U	12 U
n-Nitroso-di-n-propylamine	11 U	12 U	12 U
n-Nitrosodiphenylamine	11 U	12 U	12 U
Pentachlorophenol	28 U	29 U	29 U
Phenanthrene	11 U	12 U	12 U
Phenol	11 U	12 U	12 U
Pyrene	11 U	12 U	12 U
Total Metals (UG_G)			
Aluminum	5710 J	203 J	563 J
Antimony	60 U	60 U	60 U
Arsenic	10 U	2.9 J	10 U
Barium	26.8 J	22.5 J	33.1 J
Beryllium	5 U	5 U	5 U
Cadmium	5 U	5 U	5 U
Calcium	846 J	67200	1030 J
Chromium	10.3	10 U	1.2 J
Cobalt	50 U	0.63 J	1.2 J
Copper	2.2 J	1.8 J	1.7 J
Iron	5750	3370	1620
Lead	5.1 J	10 U	10 U
Magnesium	1380 J	1860 J	906 J
Manganese	4.5 J	9.8 J	7.6 J
Mercury	0.042 J	0.2 U	0.035 J
Nickel	40 U	40 U	1.2 J
Potassium	1210 J	1070 J	1030 J
Selenium	35 U	35 U	35 U
Silver	10 U	10 U	10 U
Sodium	5710	6800	6070
Thallium	5.6 J	25 U	25 U
Vanadium	9.4 J	50 U	1.2 J
Zinc	12.6 J	9.1 J	11.9 J
Wet Chemistry (PCT)			
% Solids	NA	NA	NA
Dissolved Metals (UG_L)			
Aluminum	71.3 J	200 U	200 U
Antimony	60 U	60 U	60 U
Arsenic	3.2 J	10 U	10 U
Barium	15.2 J	21.7 J	32.2 J
Beryllium	5 U	5 U	5 U
Cadmium	5 U	5 U	5 U
Calcium	877 J	69100	985 J
Chromium	10 U	10 U	10 U
Cobalt	0.98 J	50 U	50 U
Copper	0.96 J	2 J	1 J
Iron	4670	2660	1240
Lead	10 U	10 U	10 U
Magnesium	1190 J	1940 J	895 J
Manganese	2.1 J	9.1 J	6.5 J
Mercury	0.057 J	0.023 J	0.033 J
Nickel	40 U	40 U	40 U
Potassium	787 J	1190 J	986 J
Selenium	35 U	35 U	35 U
Silver	10 U	10 U	10 U
Sodium	6150	7330	6270
Thallium	25 U	25 U	25 U
Vanadium	2.2 J	50 U	50 U
Zinc	9.3 J	16 J	10 J

Notes:
J - Analyte present; value may not be precise
NJ - Identification questionable due to poor resolution
R - Unreliable result
U - Analyte not detected
PCT - Percent
UG/G - Micrograms per gram
UG/KG - Micrograms per kilogram
NA - Not analyzed

Station ID	MR21-SS11		MR21-SS12	MR21-SS13	MR21-SS14	MR21-SS15	MR21-SS16	MR21-SS17	MR21-SS18		MR21-SS19	MR21-SS20	MR21-SS21	MR21-SS22	MR21-SS23	MR21-SS24	MR21-SS25	MR21-SS26	MR21-SS27		MR21-SS28	MR21-SS29
Sample ID	MR21-SS11-10A	MR21-SS11D-10A	MR21-SS12-10A	MR21-SS13-10A	MR21-SS14-10A	MR21-SS15-10A	MR21-SS16-10A	MR21-SS17-10A	MR21-SS18-10A	MR21-SS18D-10A	MR21-SS19-10A	MR21-SS20-10A	MR21-SS21-10A	MR21-SS22-10A	MR21-SS23-10A	MR21-SS24-10A	MR21-SS25-10A	MR21-SS26-10A	MR21-SS27-10A	MR21-SS27D-10A	MR21-SS28-10A	MR21-SS29-10A
Sample Date	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/04/10	03/03/10	03/03/10	03/03/10	03/04/10	03/03/10
Chemical Name																						
Volatile Organic Compounds (µg/kg)																						
1,1,1-Trichloroethane	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
1,1,2,2-Tetrachloroethane	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane(Freon-113)	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
1,1,2-Trichloroethane	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
1,1-Dichloroethane	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
1,1-Dichloroethene	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
1,2,4-Trichlorobenzene	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 UJ	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
1,2-Dibromo-3-chloropropane	7.51 UJ	10.5 UJ	10.7 U	9.99 UJ	7.14 UJ	8.1 UJ	6.01 UJ	6.54 UJ	8.03 UJ	8.11 UJ	9.68 UJ	6.81 U	9.67 UJ	7.22 UJ	5.89 U	8.16 UJ	8.82 UJ	6.37 UJ	7.52 UJ	8.93 UJ	5.74 U	7.33 UJ
1,2-Dibromoethane	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
1,2-Dichlorobenzene	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	1.02 J	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
1,2-Dichloroethane	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
1,2-Dichloropropane	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
1,3-Dichlorobenzene	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
1,4-Dichlorobenzene	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	1.65 J	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
2-Butanone	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	43.2 J	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
2-Hexanone	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	10.3 J
4-Methyl-2-pentanone	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Acetone	159 J	267 J	214 J	549 J	274 J	600 J	284 J	303 J	355 J	550 J	213 J	82.6 J	691 J	206 J	22.5 J	275 J	421 J	316 J	149 J	177 J	31.9 J	492 J
Benzene	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	0.766 J	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Bromodichloromethane	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Bromoform	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Bromomethane	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 UJ	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Carbon disulfide	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	2.13 J	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Carbon tetrachloride	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Chlorobenzene	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Chloroethane	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Chloroform	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	1.3 J	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	0.996 J	14.7 UJ
Chloromethane	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
cis-1,2-Dichloroethene	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
cis-1,3-Dichloropropene	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Cyclohexane	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Dibromochloromethane	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Dichlorodifluoromethane (Freon-12)	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Ethylbenzene	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	1.28 J	1.46 J	19.4 UJ	1.26 J	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Isopropylbenzene	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Methyl acetate	3.75 J	87.4 J	384	118 J	5.09 J	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	8.36 J	13.6 U	19.3 UJ	14.4 UJ	11.8 U	11.4 J	17.6 UJ	2.22 J	21.7 J	23.8 J	11.5 U	14.7 UJ
Methylcyclohexane	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Methylene chloride	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Methyl-tert-butyl ether (MTBE)	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Styrene	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 UJ	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Tetrachloroethene	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Toluene	15 UJ	20.9 UJ	2.55 J	2.73 J	14.3 UJ	16.2 UJ	3.32 J	4.91 J	4.02 J	16.2 UJ	19.4 UJ	3.23 J	6.62 J	14.4 UJ	11.8 U	8.85 J	17.6 UJ	2.87 J	15 UJ	17.9 UJ	11.5 U	14.7 UJ
trans-1,2-Dichloroethene	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
trans-1,3-Dichloropropene	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Trichloroethene	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Trichlorofluoromethane(Freon-11)	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Vinyl chloride	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	12 UJ	13.1 UJ	16.1 UJ	16.2 UJ	19.4 UJ	13.6 U	19.3 UJ	14.4 UJ	11.8 U	16.3 UJ	17.6 UJ	12.7 UJ	15 UJ	17.9 UJ	11.5 U	14.7 UJ
Xylene, total	15 UJ	20.9 UJ	21.4 U	20 UJ	14.3 UJ	16.2 UJ	1.93 J	2.56 J	3.62 J	6 J	3.47 J	3.14 J	19.3 UJ	14.4 UJ	11.8 U	3.57 J	17.6 UJ	12.7 UJ	3.38 J	3.64 J	1.79 J	14.7 UJ
Semivolatile Organic Compounds (µg/kg)																						
1,1-Biphenyl	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
2,4,5-Trichlorophenol	675 U	684 U	660 U	722 U	644 U	663 U	575 U	638 U	679 U	684 U	770 U	597 UJ	628 U	586 U	577 U	702 U	688 U	624 U	632 U	622 U	581 U	727 U
2,4,6-Trichlorophenol	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 UJ	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
2,4-Dichlorophenol	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 UJ	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
2,4-Dimethylphenol	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 UJ	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
2,4-Dinitrophenol	675 UJ	684 UJ	660 U	722 UJ	644 U	663 U	575 U	638 UJ	679 U	684 U	770 U	597 UJ	628 UJ	586 U	577 U	702 U	688 U	624 U	632 UJ	622 UJ	581 U	727 UJ
2,4-Dinitrotoluene	300 U	300 U	300 U	302 J	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U
2,6-Dinitrotoluene	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U
2-Chloroacetophenone	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
2-Chlorobenzalmalononitrile	337 UJ	342 UJ	330 UJ	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 UJ	298 U	314 U	293 U	289 UJ	351 U	344 UJ	312 UJ	316 U	311 U	290 UJ	364 UJ
2-Chloronaphthalene	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
2-Chlorophenol	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 UJ	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
2-Methylnaphthalene	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
2-Methylphenol	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 UJ	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
2-Nitroaniline	675 U	684 U	660 U	722 U	644 U	663 U	575 U	638 U	679 U	684 U	770 U	597 U	628 U	586 U	577 U	702 U	688 U	624 U	632 U	622 U	581 U	727 U
2-Nitrophenol	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 UJ	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
3,3'-Dichlorobenzidine	337 UJ	342 UJ	330 UJ	361 UJ	322 UJ	331 UJ	287 UJ	319 UJ	340 UJ	342 UJ	385 UJ	298 U	314 UJ	293 UJ	289 UJ	351 U	344 UJ	312 UJ	316 UJ	311 UJ	290 UJ	364 UJ
3-Nitroaniline	675 U	684 U	660 U	722 U	644 U	663 U	575 U	638 U	679 U	684 U	770 U	597 U	628 U	586 U	577 U	702 U	688 U	624 U	632 U	622 U	581 U	727 U
4,6-Dinitro-2-methylphenol	675 U	684 U	660 U	722 U	644 U	663 U	575 U	638 U	679 U	684 U	770 U	597 UJ	628 U	586 U	577 U	702 U	688 U	624 U	632 U	622 U	581 U	727 U
4-Bromophenyl-phenylether	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
4-Chloro-3-methylphenol	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 UJ	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
4-Chloroaniline	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
4-Chlorophenyl-phenylether	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
4-Methylphenol	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 UJ	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
4-Nitroaniline	675 U	684 U	660 U	722 U	644 U	663 U	575 U	638 U	679 U	684 U	770 U	597 U	628 U	586 U	577 U	702 U	688 U	624 U	632 U	622 U	581 U	727 U
4-Nitrophenol	675 U	684 U	660 U	722 U	644 U	663 U	575 U	638 U	679 U	684 U	770 U	597 UJ	628 U	586 U	577 U	702 U	688 U	624 U	632 U	622 U	581 U	727 U
Acenaphthene	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
Acenaphthylene	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
Acetophenone	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
Anthracene	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
Atrazine	337 UJ	342 UJ	330 U	361 UJ	322 UJ	331 UJ	287 UJ	319 UJ	340 UJ	342 UJ	385 U	298 U	314 UJ	293 UJ	289 U	351 U	344 U	312 U	316 UJ	311 UJ	290 U	364 UJ
Benzaldehyde	182 J	155 J	83.8 J	102 J	322 R	77.4 J	287 R	185 J	165 J	310 J	260 J	298 R	314 R	293 R	289 R	189 J	1,210 J	312 R	316 R	311 R	290 R	249 J
Benzo(a)anthracene	67 U	68 U	66 U	72 U	64 U	66 U	57 U	64 U	68 U	68 U	77 U	60 U	63 U	59 U	58 U	70 U	69 U	62 U	63 U	62 U	58 U	73 U
Benzo(a)pyrene	6.7 U	6.8 U	6.6 U	7.2 U	6.4 U	6.6 U	5.7 U	6.4 U	6.8 U	6.8 U	7.7 U	9.8	6.3 U	5.9 U	5.8 U	30	6.9 U	6.2 U	14	11	5.8 U	7.3 U
Benzo(b)fluoranthene	67 U	14 J	66 U	72 U	64 U	66 U	57 U	64 U	11 J	68 U	77 U	18 J	63 U	59 U	58 U	53 J	69 U	62 U	35 J	21 J	58 U	18 J
Benzo(g,h,i)perylene	337 UJ	342 UJ	330 UJ	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 UJ	298 U	314 U	293 U	289 UJ	351 U	344 UJ	312 UJ	316 U	311 U	290 UJ	364 UJ
Benzo(k)fluoranthene	337 UJ	342 UJ	330 UJ	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 UJ	298 U	314 U	293 U	289 UJ	351 U	344 UJ	312 UJ	316 U	311 U	290 UJ	364 UJ

Station ID	MR21-SS11		MR21-SS12	MR21-SS13	MR21-SS14	MR21-SS15	MR21-SS16	MR21-SS17	MR21-SS18		MR21-SS19	MR21-SS20	MR21-SS21	MR21-SS22	MR21-SS23	MR21-SS24	MR21-SS25	MR21-SS26	MR21-SS27		MR21-SS28	MR21-SS29
Sample ID	MR21-SS11-10A	MR21-SS11D-10A	MR21-SS12-10A	MR21-SS13-10A	MR21-SS14-10A	MR21-SS15-10A	MR21-SS16-10A	MR21-SS17-10A	MR21-SS18-10A	MR21-SS18D-10A	MR21-SS19-10A	MR21-SS20-10A	MR21-SS21-10A	MR21-SS22-10A	MR21-SS23-10A	MR21-SS24-10A	MR21-SS25-10A	MR21-SS26-10A	MR21-SS27-10A	MR21-SS27D-10A	MR21-SS28-10A	MR21-SS29-10A
Sample Date	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/03/10	03/04/10	03/03/10	03/03/10	03/03/10	03/04/10	03/03/10
Chemical Name																						
bis(2-Chloroethoxy)methane	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
bis(2-Chloroethyl)ether	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
bis(2-Chloroisopropyl)ether	337 UJ	342 UJ	330 U	361 UJ	322 UJ	331 UJ	287 UJ	319 UJ	340 UJ	342 UJ	385 U	298 U	314 UJ	293 UJ	289 U	351 U	344 U	312 U	316 UJ	311 UJ	290 U	364 UJ
bis(2-Ethylhexyl)phthalate	337 UJ	342 UJ	330 U	361 UJ	322 U	331 U	287 U	319 UJ	340 U	342 U	385 U	298 U	314 UJ	293 U	289 U	351 U	344 U	312 U	316 UJ	311 UJ	290 U	364 UJ
Butylbenzylphthalate	337 UJ	342 UJ	330 U	361 UJ	322 U	331 U	287 U	319 UJ	340 U	342 U	385 U	298 U	314 UJ	293 U	289 U	351 U	344 U	312 U	316 UJ	311 UJ	290 U	364 UJ
Caprolactam	337 UJ	342 UJ	330 U	361 UJ	322 U	331 U	287 U	319 UJ	340 U	342 U	385 U	298 U	314 UJ	293 U	289 U	351 U	344 U	312 U	316 UJ	311 UJ	290 U	364 UJ
Carbazole	337 UJ	342 UJ	330 U	361 UJ	322 U	331 U	287 U	319 UJ	340 U	342 U	385 U	298 U	314 UJ	293 U	289 U	351 U	344 U	312 U	316 UJ	311 UJ	290 U	364 UJ
Chrysene	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
Dibenz(a,h)anthracene	6.7 U	6.8 U	6.6 UJ	7.2 UJ	6.4 U	6.6 UJ	5.7 UJ	6.4 U	6.8 U	6.8 U	7.7 U	6 UJ	6.3 U	5.9 UJ	5.8 UJ	7 UJ	6.9 U	6.2 UJ	6.3 UJ	6.2 UJ	5.8 UJ	7.3 U
Dibenzofuran	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
Diethylphthalate	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
Dimethyl phthalate	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
Di-n-butylphthalate	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
Di-n-octylphthalate	337 UJ	342 UJ	330 UJ	361 UJ	322 UJ	331 UJ	287 UJ	319 UJ	340 UJ	342 UJ	385 UJ	298 U	314 UJ	293 UJ	289 UJ	351 U	344 UJ	312 UJ	316 UJ	311 UJ	290 UJ	364 UJ
Fluoranthene	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
Fluorene	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
Hexachlorobenzene	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
Hexachlorobutadiene	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
Hexachlorocyclopentadiene	337 UJ	342 UJ	330 UJ	361 UJ	322 UJ	331 UJ	287 UJ	319 UJ	340 UJ	342 UJ	385 UJ	298 UJ	314 UJ	293 UJ	289 UJ	351 UJ	344 UJ	312 UJ	316 UJ	311 UJ	290 UJ	364 UJ
Hexachloroethane	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
Indeno(1,2,3-cd)pyrene	67 U	68 U	66 UJ	72 UJ	64 U	66 UJ	57 UJ	64 U	68 U	68 U	77 U	60 UJ	63 U	59 UJ	58 UJ	70 UJ	69 U	62 UJ	63 UJ	62 UJ	58 UJ	73 U
Isophorone	67 U	68 U	66 U	72 U	64 U	66 U	57 U	64 U	68 U	68 U	77 U	60 U	63 U	59 U	58 U	70 U	69 U	62 U	63 U	62 U	58 U	73 U
Naphthalene	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
n-Nitroso-di-n-propylamine	100 U	100 U	99 U	110 U	96 U	99 U	86 U	96 U	100 U	100 U	120 U	89 U	94 U	88 U	87 U	100 U	100 U	94 U	95 U	93 U	87 U	110 U
n-Nitrosodiphenylamine	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
Nitrobenzene	300 U	300 U	300 U	820 J	300 U	300 U	300 U	300 U	300 U	300 U	300 U	396 J	300 U	300 U	300 U	11,700 J	300 U	300 U	300 U	300 U	300 U	1,270 J
Pentachlorophenol	22 UJ	23 UJ	22 U	24 U	21 UJ	22 U	19 U	21 UJ	23 UJ	23 UJ	26 UJ	20 U	21 UJ	20 U	19 U	23 U	23 UJ	21 U	21 U	21 U	19 U	24 UJ
Phenanthrene	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
Phenol	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 UJ	314 U	293 U	289 U	351 U	344 U	312 U	316 U	311 U	290 U	364 U
Pyrene	337 U	342 U	330 U	361 U	322 U	331 U	287 U	319 U	340 U	342 U	385 U	298 U	314 U	293 U	289 U	59.1 J	344 U	312 U	316 U	311 U	290 U	364 U
Explosives (µg/kg)																						
1,3,5-Trinitrobenzene	101 J	300 U	300 U	390 J	300 U	300 U	300 U	211 J	117 J	166 J	300 U	100 J	152 J	300 U	300 U	300 U	300 U	300 U	300 U	310 J	300 U	280 J
1,3-Dinitrobenzene	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	223 J	206 J	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U
2,4,6-Trinitrotoluene	300 U	632 J	300 U	750 J	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	169 J	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U
2-Amino-4,6-dinitrotoluene	300 U	300 U	300 U	351 J	300 U	300 U	300 U	300 U	300 U	113 J	300 U	300 U	300 U	300 U	300 U	300 U	300 U	116 J	300 U	300 U	300 U	300 U
2-Nitrotoluene	300 U	300 U	300 U	243 J	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	209 J	300 U	300 U	300 U	122 J
3-Nitrotoluene	300 U	300 U	109 J	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	117 J	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U
4-Amino-2,6-dinitrotoluene	300 U	300 U	163 J	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U
4-Nitrotoluene	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	132 J	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	3,770 J
HMX	300 U	300 U	300 U	647 J	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	292 J	300 U	300 U	300 U	300 U	300 U	277 J
Nitroglycerin	968 J	750 U	750 U	750 U	750 U	457 J	750 U	750 U	1,870 J	750 U	750 U	750 U	750 U	750 U	750 U	616 J	750 U	750 U	750 U	750 U	750 U	522 J
Perchlorate	2.7 U	2.74 U	2.64 U	2.89 U	2.58 U	2.65 U	2.3 U	2.55 U	2.72 U	2.74 U	3.08 U	2.39 U	2.51 U	2.34 U	2.31 U	2.81 U	2.75 U	2.5 U	2.53 U	2.49 U	2.32 U	2.91 U
PETN	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U	500 U
RDX	472 J	198 J	1,020 J	300 U	767 J	135 J	258 J	300 U	300 U	300 U	382 J	176 J	300 U	300 U	107 J	300 U	230 J	153 J	543	616 J	300 U	2,730 J
Tetryl	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	408	482	106 J	300 U	300 U	300 U	300 U	300 U	300 U	696 J	300 U	300 U	300 U	300 U
Total Metals (mg/kg)																						
Aluminum	1,170	1,160	3,310	6,270	864	687	387	884	804	790	1,410	3,190	542	435	2,330	5,330	1,830	1,790	600	632	2,000	3,510
Antimony	1.01 UJ	1 UJ	0.995 UJ	1.08 U	0.975 U	0.97 U	0.829 UJ	0.903 UJ	1.01 U	0.978 U	1.17 UJ	0.895 UJ	0.929 U	0.879 U	0.87 UJ	1.05 UJ	1.06 UJ	0.896 UJ	0.929 U	0.928 U	0.893 UJ	1.09 UJ
Arsenic	0.356	0.348	0.781	0.921	0.393	0.435	0.276 U	0.283 J	0.397	0.482	0.475	0.595	0.241 J	0.293 U	0.472	1.17	0.504	0.35	0.303 J	0.325	0.415	0.816
Barium	10.8	10.5	15.7	29	8.67	18.2	5.74	21.1	31.8	28.9	23.2	14.4	7.63	5.22	6.25	23.8	32.8	13.5	7.07	8.06	6	64.2
Beryllium	0.337 U	0.334 U	0.332 U	0.0758 J	0.325 U	0.323 U	0.276 U	0.301 U	0.338 U	0.326 U	0.389 U	0.0695 J	0.31 U	0.293 U	0.29 U	0.114 J	0.0907 J	0.299 U	0.31 U	0.309 U	0.298 U	0.121 J
Cadmium	0.337 U	0.334 U	0.0883 J	0.104 J	0.325 U	0.323 U	0.276 U	0.301 U	0.338 U	0.326 U	0.0913 J	0.26 J	0.31 U	0.293 U	0.29 U	0.264 J	0.17 J	0.299 U	0.31 U	0.309 U	0.298 U	0.139 J
Calcium	553	550	2,150	841	327	517	270 J	338	372	354	752	6,690	534	227 J	425	4,530	3,610	689	557	629	144 J	2,700
Chromium	1.77	1.73	3.13	5.02	1.37	0.996	0.569	0.929	0.848	0.877	1.53	4.95	0.989	0.792	2.8	7.98	1.7	2.39	0.998	1.03	2.29	2.55
Cobalt	0.843 U	0.835 U	0.829 U	0.898 U	0.813 U	0.809 U	0.691 U	0.752 U	0.845 U	0.815 U	0.973 U	0.525 J	0.774 U	0.733 U	0.725 U	0.668 J	0.882 U	0.747 U	0.774 U	0.773 U	0.745 U	0.909 U
Copper	0.856	0.873	0.988	3.54	0.906	1.11	0.406 J	1.46	1.64	1.68	2.23	4.74	0.694	0.509 J	0.883	6.1	2.67	1.12	0.954	1.11	0.539 J	2.86
Iron	341	364	823	1,110	499	389	152	381	314	306	478	1,870	358	236	977	2,640	641	676	320	338	990	1,400
Lead	5.19	5.75	5.84	9.68	6.29	4.72	2.72	8.43	12.7	11.9	17.7	15	6.91	9.55	2.91	27.2	9.39	4.21	12.3	14.9	6.86	15.6
Magnesium	95 J	96.9 J	153 J	179 J	325 U	80 J	276 U	301 U	85.1 J	81 J	115 J	251 J	71.7 J	293 U	109 J	388	244 J	116 J	310 U	309 U	78.4 J	238 J
Manganese	2.89 J	2.86 J	19.2 J	60	4.28	1.97	4.55 J	4.91 J	4.14	4.47	3.3 J	30.8 J	18.9	2.97	7.45 J	65.6 J	43.5 J	20 J	4.5	4.63	5.57 J	118 J
Mercury	0.0384 J	0.0282 J	0.0241 J	0.07	0.0235 J	0.0544	0.0345 U	0.0265 J	0.0348 J	0.0352 J	0.0428 J	0.0645	0.0155 J	0.0142 J	0.0369 U	0.0854	0.0553	0.0198 J	0.0247 J	0.029 J	0.0142 J	0.052
Nickel	0.551 J	0.574 J	1.01	1.32	0.443 J	0.51 J	0.553 U	0.608	0.794	0.748	1.17	2.67	0.345 J	0.586 U	0.667	3.24	1.08	0.563 J	0.496 J	0.532 J	0.511 J	1.83
Potassium	81 J	84.6 J	142 J	187 J	325 U	67.5 J	276 U	301 U	338 U	326 U	96.5 J	190 J	310 U	293 U	110 J	351 J	149 J	107 J	310 U	309 U	77.2 J	205 J
Selenium	0.285 J	0.296 J	0.318 J	0.66	0.213 J	0.291 J	0.332 U	0.231 J	0.362 J	0.38 J	0.419 J	0.201 J	0.371 U	0.352 U	0.348 U	0.403 J	0.388 J	0.248 J	0.187 J	0.279 J	0.357 U	0.294 J
Silver	0.337 U	0.334 U	0.332 U	0.359 U	0.325 U	0.323 U	0.276 U	0.301 U	0.338 U	0.326 U	0.389 U	0.371	0.31 U	0.293 U	0.29 U	0.44	0.353 U	0.299 U	0.31 U	0.309 U	0.298 U	0.364 U
Sodium	337 U	334 U	332 U	359 U	325 U	323 U	276 U	301 U	338 U	326 U	389 U	298 U	310 U	293 U	290 U	349 U	353 U	299 U	310 U	309 U	298 U	364 U
Thallium	0.54 U	0.534 U	0.531 U	0.574 U	0.52 U	0.517 U	0.442 U	0.482 U	0.541 U	0.521 U	0.622 U	0.477 U	0.495 U	0.469 U	0.464 U	0.558 U	0.565 U	0.478 U	0.496 U	0.495 U	0.477 U	0.582 U
Vanadium	2.18	2.23	4.14	5.63	2.25	1.16	0.659 J	1.22	1.41	1.41	2.94	5.38	1.76	1.37	3.51	9.96	2.71	2.92	1.76	1.78	3.41	4.55
Zinc	1.75	1.91	4.32	7.53	2.39	2.83	1.24	2.31	3.57	3.64	4.66	26.9	5	1.47	2.95	41.9	9.49	4.18	4.73	5.23	2.74	12.5

Notes:

Shading indicates detections

NA - Not analyzed

J - Analyte present, value may or may not be accurate or precise

R - Unreliable Result

U - The material was analyzed for, but not detected

UJ - Analyte not detected, quantitation limit may be inaccurate

mg/kg - Milligrams per kilogram

µg/kg - Micrograms per kilogram

Station ID	MR21-SS30	MR21-SS31	MR21-SS32	MR21-SS33	MR21-SS34	MR21-SS35	MR21-SS36	MR21-SS37	MR21-SS38	MR21-SS39	MR21-SS40
Sample ID	MR21-SS30-10A	MR21-SS31-10A	MR21-SS32-10A	MR21-SS33-10A	MR21-SS34-10A	MR21-SS35-10A	MR21-SS36-10A	MR21-SS37-10A	MR21-SS38-10A	MR21-SS39-10A	MR21-SS40-10A
Sample Date	03/04/10	03/03/10	03/04/10	03/04/10	03/04/10	03/04/10	03/04/10	03/04/10	03/04/10	03/04/10	03/03/10
Chemical Name											
Volatile Organic Compounds (µg/kg)											
1,1,1-Trichloroethane	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
1,1,2,2-Tetrachloroethane	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
1,1,2-Trichloro-1,2,2-trifluoroethane(Freon-113)	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
1,1,2-Trichloroethane	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
1,1-Dichloroethane	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
1,1-Dichloroethene	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
1,2,4-Trichlorobenzene	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
1,2-Dibromo-3-chloropropane	6.93 U	6.19 U	6.66 UJ	6.86 UJ	10.1 UJ	9.33 UJ	8.28 UJ	7.77 UJ	8.79 UJ	10.4 UJ	8.04 UJ
1,2-Dibromoethane	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
1,2-Dichlorobenzene	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
1,2-Dichloroethane	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
1,2-Dichloropropane	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
1,3-Dichlorobenzene	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
1,4-Dichlorobenzene	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
2-Butanone	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
2-Hexanone	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	12.8 J	20.9 UJ	16.1 UJ
4-Methyl-2-pentanone	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Acetone	249 J	270 J	174 J	201 J	272 J	495 J	346 J	143 J	146 J	77 J	310 J
Benzene	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Bromodichloromethane	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Bromoform	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Bromomethane	13.9 UJ	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Carbon disulfide	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Carbon tetrachloride	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Chlorobenzene	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Chloroethane	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Chloroform	13.9 U	12.4 U	13.3 UJ	13.7 UJ	6.48 J	18.7 UJ	102 J	1.07 J	17.6 UJ	20.9 UJ	16.1 UJ
Chloromethane	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
cis-1,2-Dichloroethene	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
cis-1,3-Dichloropropene	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Cyclohexane	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Dibromochloromethane	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Dichlorodifluoromethane (Freon-12)	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Ethylbenzene	13.9 U	12.4 U	13.3 UJ	1.18 J	2.26 J	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Isopropylbenzene	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Methyl acetate	13.9 U	12.4 U	4.53 J	5.59 J	16.3 J	29.9 J	306 J	15.5 UJ	4.5 J	20.9 UJ	15.6 J
Methylcyclohexane	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Methylene chloride	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Methyl-tert-butyl ether (MTBE)	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Styrene	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Tetrachloroethene	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Toluene	13.9 U	1.08 J	13.3 UJ	5.04 J	1.86 J	1.95 J	4.92 J	15.5 UJ	5.83 J	2.27 J	2.07 J
trans-1,2-Dichloroethene	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
trans-1,3-Dichloropropene	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Trichloroethene	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Trichlorofluoromethane(Freon-11)	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Vinyl chloride	13.9 U	12.4 U	13.3 UJ	13.7 UJ	20.1 UJ	18.7 UJ	16.6 UJ	15.5 UJ	17.6 UJ	20.9 UJ	16.1 UJ
Xylene, total	13.9 U	12.4 U	13.3 UJ	4.85 J	3.89 J	3.37 J	16.6 UJ	15.5 UJ	2.68 J	3.58 J	2.99 J
Semivolatile Organic Compounds (µg/kg)											
1,1-Biphenyl	331 U	342 U	300 U	326 U	484 U	381 U	326 U	325 U	338 U	315 U	373 U
2,4,5-Trichlorophenol	661 U	683 U	600 U	652 U	968 UJ	762 U	653 U	650 U	675 U	630 U	747 U
2,4,6-Trichlorophenol	331 U	342 U	300 U	326 U	484 U	381 U	326 U	325 U	338 U	315 U	373 U
2,4-Dichlorophenol	331 U	342 U	300 U	326 U	484 U	381 U	326 U	325 U	338 U	315 U	373 U
2,4-Dimethylphenol	331 U	342 U	300 U	326 U	484 U	381 U	326 U	325 U	338 U	315 U	373 U
2,4-Dinitrophenol	661 U	683 U	600 UJ	652 UJ	968 UJ	762 UJ	653 U	650 U	675 U	630 U	747 U
2,4-Dinitrotoluene	300 U	300 U	300 U	300 U	300 U	300 U	140 J	300 U	300 U	300 U	300 U
2,6-Dinitrotoluene	300 U	300 U	300 U	322 J	300 U	300 U	300 U	300 U	300 U	300 U	300 U
2-Chloroacetophenone	331 U	342 U	300 U	326 U	484 U	381 U	326 U	325 U	338 U	315 U	373 U
2-Chlorobenzalmalononitrile	331 U	342 U	300 U	326 UJ	484 U	381 U	326 UJ	325 UJ	338 UJ	315 UJ	373 U
2-Chloronaphthalene	331 U	342 U	300 U	326 U	484 U	381 U	326 U	325 U	338 U	315 U	373 U
2-Chlorophenol	331 U	342 U	300 U	326 U	484 U	381 U	326 U	325 U	338 U	315 U	373 U
2-Methylnaphthalene	331 U	342 U	300 U	326 U	484 U	381 U	326 U	325 U	338 U	315 U	373 U
2-Methylphenol	331 U	342 U	300 U	326 U	484 U	381 U	326 U	325 U	338 U	315 U	373 U
2-Nitroaniline	661 U	683 U	600 U	652 U	968 UJ	762 U	653 U	650 U	675 U	630 U	747 U
2-Nitrophenol	331 U	342 U	300 U	326 U	484 U	381 U	326 U	325 U	338 U	315 U	373 U
3,3'-Dichlorobenzidine	331 U	342 U	300 UJ	326 UJ	484 R	381 UJ	326 UJ	325 UJ	338 UJ	315 UJ	373 U
3-Nitroaniline	661 U	683 U	600 U	652 U	968 R	762 U	653 U	650 U	675 U	630 U	747 U
4,6-Dinitro-2-methylphenol	661 U	683 U	600 U	652 U	968 U	762 U	653 U	650 U	675 U	630 U	747 U
4-Bromophenyl-phenylether	331 U	342 U	300 U	326 U	484 UJ	381 U	326 U	325 U	338 U	315 U	373 U
4-Chloro-3-methylphenol	331 U	342 U	300 U	326 U	484 UJ	381 U	326 U	325 U	338 U	315 U	373 U
4-Chloroaniline	331 U	342 U	300 U	326 U	484 R	381 U	326 U	325 U	338 U	315 U	373 U
4-Chlorophenyl-phenylether	331 U	342 U	300 U	326 U	484 UJ	381 U	326 U	325 U	338 U	315 U	373 U
4-Methylphenol	331 U	342 U	300 U	326 U	484 U	381 U	326 U	325 U	338 U	315 U	373 U
4-Nitroaniline	661 U	683 U	600 U	652 U	968 R	762 U	653 U	650 U	675 U	630 U	747 U
4-Nitrophenol	661 U	683 U	600 U	652 U	968 U	762 U	653 U	650 U	675 U	630 U	747 U
Acenaphthene	331 U	342 U	300 U	326 U	484 U	381 U	326 U	325 U	338 U	315 U	373 U
Acenaphthylene	331 U	342 U	300 U	326 U	484 U	381 U	326 U	325 U	338 U	315 U	373 U
Acetophenone	331 U	342 U	300 U	326 U	484 U	381 U	326 U	325 U	338 U	315 U	373 U
Anthracene	331 U	342 U	300 U	326 U	484 UJ	381 U	326 U	325 U	338 U	315 U	373 U
Atrazine	331 U	342 U	300 UJ	326 UJ	484 UJ	381 UJ	326 U	325 U	338 U	315 U	373 U
Benzaldehyde	331 R	86.3 J	300 R	326 R	277 J	381 R	326 R	94 J	103 J	315 R	152 J
Benzo(a)anthracene	66 U	68 U	60 U	65 U	97 UJ	76 U	65 U	65 U	68 U	63 U	75 U
Benzo(a)pyrene	6.6 U	20	4.5 J	6.5 U	9.7 UJ	7.6 U	6.5 U	6.5 U	6.8 U	6.3 U	23
Benzo(b)fluoranthene	66 U	31 J	60 U	14 J	13 J	12 J	65 U	65 U	22 J	63 U	34 J
Benzo(g,h,i)perylene	331 U	342 U	300 U	326 UJ	484 UJ	381 U	326 UJ	325 UJ	338 UJ	315 UJ	373 U
Benzo(k)fluoranthene	331 U	342 U	300 U	326 UJ	484 U	381 U	326 UJ	325 UJ	338 UJ	315 UJ	373 U

Station ID	MR21-SS30	MR21-SS31	MR21-SS32	MR21-SS33	MR21-SS34	MR21-SS35	MR21-SS36	MR21-SS37	MR21-SS38	MR21-SS39	MR21-SS40
Sample ID	MR21-SS30-10A	MR21-SS31-10A	MR21-SS32-10A	MR21-SS33-10A	MR21-SS34-10A	MR21-SS35-10A	MR21-SS36-10A	MR21-SS37-10A	MR21-SS38-10A	MR21-SS39-10A	MR21-SS40-10A
Sample Date	03/04/10	03/03/10	03/04/10	03/04/10	03/04/10	03/04/10	03/04/10	03/04/10	03/04/10	03/04/10	03/03/10
Chemical Name											
bis(2-Chloroethoxy)methane	331 U	342 U	300 U	326 U	484 U	381 U	326 U	325 U	338 U	315 U	373 U
bis(2-Chloroethyl)ether	331 U	342 U	300 U	326 U	484 U	381 U	326 U	325 U	338 U	315 U	373 U
bis(2-Chloroisopropyl)ether	331 U	342 U	300 UJ	326 UJ	484 UJ	381 UJ	326 U	325 U	338 U	315 U	373 U
bis(2-Ethylhexyl)phthalate	331 U	342 U	300 UJ	326 UJ	484 UJ	381 UJ	326 U	325 U	338 U	315 U	373 U
Butylbenzylphthalate	331 U	342 U	300 UJ	326 UJ	484 UJ	381 UJ	326 U	325 U	338 U	315 U	373 U
Caprolactam	331 U	342 U	300 UJ	326 UJ	484 UJ	381 UJ	326 U	325 U	338 U	315 U	373 U
Carbazole	331 U	342 U	300 UJ	326 UJ	484 UJ	381 UJ	326 U	325 U	338 U	315 U	373 U
Chrysene	331 U	342 U	300 U	326 U	484 UJ	381 U	326 U	325 U	338 U	315 U	373 U
Dibenz(a,h)anthracene	6.6 U	6.8 UJ	6 UJ	6.5 U	9.7 U	7.6 U	6.5 U	6.5 U	6.8 U	6.3 U	7.5 UJ
Dibenzofuran	331 U	342 U	300 U	326 U	484 UJ	381 U	326 U	325 U	338 U	315 U	373 U
Diethylphthalate	331 U	342 U	300 U	326 U	484 U	381 U	326 U	325 U	338 U	315 U	373 U
Dimethyl phthalate	331 U	342 U	300 U	326 U	484 UJ	381 U	326 U	325 U	338 U	315 U	373 U
Di-n-butylphthalate	331 U	342 U	300 U	326 U	484 U	381 U	326 U	325 U	338 U	315 U	373 U
Di-n-octylphthalate	331 U	342 U	300 UJ	326 UJ	484 UJ	381 UJ	326 UJ	325 UJ	338 UJ	315 UJ	373 U
Fluoranthene	331 U	342 U	300 U	326 U	484 UJ	381 U	326 U	325 U	338 U	315 U	373 U
Fluorene	331 U	342 U	300 U	326 U	484 UJ	381 U	326 U	325 U	338 U	315 U	373 U
Hexachlorobenzene	331 U	342 U	300 U	326 U	484 UJ	381 U	326 U	325 U	338 U	315 U	373 U
Hexachlorobutadiene	331 U	342 U	300 U	326 U	484 U	381 U	326 U	325 U	338 U	315 U	373 U
Hexachlorocyclopentadiene	331 UJ	342 UJ	300 UJ	326 UJ	484 UJ	381 UJ	326 UJ	325 UJ	338 UJ	315 UJ	373 UJ
Hexachloroethane	331 U	342 U	300 U	326 U	484 UJ	381 U	326 U	325 U	338 U	315 U	373 U
Indeno(1,2,3-cd)pyrene	66 U	68 UJ	60 UJ	65 U	97 U	76 U	65 U	65 U	68 U	63 U	75 UJ
Isophorone	66 U	68 U	60 U	65 U	97 U	76 U	65 U	65 U	68 U	63 U	75 U
Naphthalene	331 U	342 U	300 U	326 U	484 U	381 U	326 U	325 U	338 U	315 U	373 U
n-Nitroso-di-n-propylamine	99 U	100 U	90 U	98 U	140 U	110 U	98 U	98 U	100 U	94 U	110 U
n-Nitrosodiphenylamine	331 U	342 U	300 U	326 U	484 UJ	381 U	326 U	325 U	338 U	315 U	373 U
Nitrobenzene	300 U	300 U	690 J	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U
Pentachlorophenol	22 UJ	23 U	20 U	22 UJ	32 UJ	25 UJ	22 UJ	22 UJ	22 UJ	21 UJ	25 U
Phenanthrene	331 U	342 U	300 U	326 U	484 UJ	381 U	326 U	325 U	338 U	315 U	373 U
Phenol	331 U	342 U	300 U	326 U	484 U	381 U	326 U	325 U	338 U	315 U	373 U
Pyrene	331 U	342 U	300 U	326 U	484 UJ	381 U	326 U	325 U	338 U	315 U	373 U
Explosives (µg/kg)											
1,3,5-Trinitrobenzene	180 J	349 J	300 U	114 J	226 J	300 U	300 U	300 U	300 U	300 U	300 U
1,3-Dinitrobenzene	300 U	300 U	300 U	300 U	300 U	300 U	300 U	199 J	300 U	300 U	300 U
2,4,6-Trinitrotoluene	300 U	300 U	300 U	300 U	300 U	300 U	129 J	300 U	300 U	133 J	300 U
2-Amino-4,6-dinitrotoluene	300 U	300 U	300 U	242 J	300 UJ	126 J	300 U	300 U	300 U	300 U	300 U
2-Nitrotoluene	300 U	300 U	300 U	202 J	300 U	112 J	300 U	300 U	300 U	300 U	355 J
3-Nitrotoluene	300 U	2,690 J	270 J	300 U	300 U	300 U	300 U	300 U	300 U	117 J	300 U
4-Amino-2,6-dinitrotoluene	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U
4-Nitrotoluene	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U	300 U
HMX	300 U	300 U	300 U	300 U	1,130 J	300 U	300 U	294 J	300 U	300 U	300 U
Nitroglycerin	750 U	750 U	1,010 J	750 U	750 U	750 U	750 U	750 U	750 U	543	750 U
Perchlorate	2.64 U	2.73 U	2.4 U	2.61 U	3.87 U	3.05 U	2.61 U	2.6 U	2.7 U	2.52 U	2.99 U
PETN	500 U	500 U	500 U	500 U	500 U	500 U	1,480	523 J	639 J	500 U	500 U
RDX	452 J	300 U	435 J	857 J	615	917 J	300 U	300 U	300 U	300 U	300 U
Tetryl	300 U	300 U	300 U	108 J	300 U	300 U	300 U	300 U	300 U	300 U	300 U
Total Metals (mg/kg)											
Aluminum	3,980	3,300	739	2,280	1,680	2,130	2,110	1,700	679	1,110	9,090
Antimony	0.992 UJ	0.986 UJ	0.886 U	0.927 U	1.44 U	1.1 U	0.979 UJ	0.98 UJ	1.01 UJ	0.909 UJ	1.1 UJ
Arsenic	0.689	0.765	0.248 J	0.598	0.555	0.409	0.542	0.492	0.367	0.427	1.6
Barium	50.8	26.5	7.96	15	37.8	35.8	18.2	15.3	12.6	16.7	27.4
Beryllium	0.126 J	0.329 U	0.295 U	0.309 U	0.481 U	0.368 U	0.326 U	0.327 U	0.336 U	0.303 U	0.0971 J
Cadmium	0.0851 J	0.118 J	0.295 U	0.309 U	0.16 J	0.129 J	0.326 U	0.327 U	0.336 U	0.303 U	0.13 J
Calcium	3,430	3,500	259 J	988	3,580	4,110	828	769	929	881	4,210
Chromium	2.41	4.04	0.948	2.32	1.69	1.91	1.71	1.68	1.37	1.54	8.84
Cobalt	0.826 U	0.821 U	0.738 U	0.772 U	1.2 U	0.92 U	0.816 U	0.816 U	0.84 U	0.757 U	0.6 J
Copper	2.84	3.31	0.814	1.41	2.63	3.17	1.89	1.86	1.38	1.95	6.54
Iron	1,250	1,660	287	1,150	754	648	605	648	454	592	3,040
Lead	8.5	15	6.07	9.64	11	8.76	10.1	8.68	12.6	10.8	28.9
Magnesium	282 J	245 J	295 U	138 J	310 J	232 J	117 J	143 J	102 J	94.6 J	335 J
Manganese	120 J	60.1 J	3.75	53.4	135	38.3	22.8 J	37.7 J	21.7 J	29.2 J	25.1 J
Mercury	0.0361 J	0.0346 J	0.0235 J	0.0401	0.0516 J	0.058	0.0575	0.0347 J	0.0315 J	0.0257 J	0.07
Nickel	2.1	1.4	0.438 J	0.934	0.986	1.25	1.06	0.848	0.618 J	0.587 J	3.88
Potassium	173 J	177 J	295 U	126 J	252 J	190 J	126 J	111 J	85.2 J	83 J	278 J
Selenium	0.208 J	0.204 J	0.354 U	0.199 J	0.432 J	0.278 J	0.339 J	0.208 J	0.278 J	0.198 J	0.244 J
Silver	0.331 U	0.329 U	0.295 U	0.309 U	0.481 U	0.368 U	0.326 U	0.327 U	0.336 U	0.303 U	0.212 J
Sodium	331 U	329 U	295 U	309 U	481 U	368 U	326 U	327 U	336 U	303 U	368 U
Thallium	0.529 U	0.526 U	0.473 U	0.494 U	0.77 U	0.589 U	0.522 U	0.522 U	0.538 U	0.485 U	0.588 U
Vanadium	3.74	5.78	1.49	4.26	3.02	2.84	2.61	2.93	2.75	2.98	11.8
Zinc	16.9	18.3	1.61	5.62	13.3	8.83	2.55	6.91	5.03	3.28	33.9

Notes:

Shading indicates detections

NA - Not analyzed
J - Analyte present, value may or may not be accurate or precise
R - Unreliable Result
U - The material was analyzed for, but not detected
UJ - Analyte not detected, quantitation limit may be inaccurate
mg/kg - Milligrams per kilogram
µg/kg - Micrograms per kilogram

Station ID	MR21-MW01		MR21-MW02	MR21-MW03	MR21-MW04	MR21-MW05	MR21-MW06	MR21-MW07	MR21-MW08	MR21-MW09	MR21-MW10
Sample ID	MR21-GW01-10B	MR21-GW01D-10B	MR21-GW02-10B	MR21-GW03-10B	MR21-GW04-10B	MR21-GW05-10B	MR21-GW06-10B	MR21-GW07-10B	MR21-GW08-10B	MR21-GW09-10B	MR21-GW10-10B
Sample Date	04/10/10	04/10/10	04/10/10	04/10/10	04/10/10	04/10/10	04/10/10	04/10/10	04/10/10	04/10/10	04/10/10
Chemical Name											
Volatile Organic Compounds (µg/l)											
1,1,1-Trichloroethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane(Freon-113)	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,2-Dibromoethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	5 R	5 R	5 U	5 U	5 U	5 R	5 R	5 R	5 R	5 R	5 R
Benzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	1 U	1 U	1 UJ	1 UJ	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	1 UJ	1 UJ	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Chloroform	1 U	1 U	1 U	2.12	4.07	1 U	8	1 U	1.05 U	1 U	28
Chloromethane	1.07 UJ	3.89 UJ	5.89 U	3.79 U	1.67 U	3.81 UJ	2.92 UJ	3.76 UJ	11.7 UJ	3.8 UJ	3.3 UJ
cis-1,2-Dichloroethene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	1 U	1 U	1 UJ	1 UJ	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	1 U	1 U	1 UJ	1 UJ	1 UJ	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane (Freon-12)	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl acetate	1.5 U	1.5 U	1.5 UJ	1.5 UJ	1.5 UJ	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Methylcyclohexane	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Methyl-tert-butyl ether (MTBE)	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	3.64	3.91	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
trans-1,3-Dichloropropene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane(Freon-11)	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	1 UJ	1 UJ	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Xylene, total	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Semivolatile Organic Compounds (µg/l)											
1,1-Biphenyl	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
2,4,5-Trichlorophenol	24 U	24 U	24 R	24.5 U	26.3 U	24.5 U	24.5 U	26.3 U	25 U	26.3 U	25 U
2,4,6-Trichlorophenol	9.62 U	9.62 U	9.62 R	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
2,4-Dichlorophenol	9.62 U	9.62 U	9.62 R	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
2,4-Dimethylphenol	9.62 U	9.62 U	9.62 R	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
2,4-Dinitrophenol	24 U	24 U	24 R	24.5 U	26.3 U	24.5 U	24.5 U	26.3 U	25 U	26.3 U	25 U
2,4-Dinitrotoluene	0.24 U	0.224 U	0.24 U	0.235 U	0.24 U	0.24 U	0.24 U	0.235 U	0.24 U	0.24 U	0.24 U
2,6-Dinitrotoluene	0.24 U	0.224 U	0.24 U	0.235 U	0.24 U	0.24 U	0.24 U	0.235 U	0.24 U	0.24 U	0.24 U
2-Chloroacetophenone	4.81 U	4.81 U	4.81 U	4.9 U	5.26 U	4.9 U	4.9 U	5.26 U	5 U	5.26 U	5 U
2-Chlorobenzalmalononitrile	4.81 UJ	4.81 UJ	4.81 UJ	4.9 UJ	5.26 UJ	4.9 UJ	4.9 UJ	5.26 UJ	5 UJ	5.26 UJ	5 UJ
2-Chloronaphthalene	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
2-Chlorophenol	9.62 U	9.62 U	9.62 R	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
2-Methylnaphthalene	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
2-Methylphenol	9.62 U	9.62 U	9.62 R	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
2-Nitroaniline	24 U	24 U	24 U	24.5 U	26.3 U	24.5 U	24.5 U	26.3 U	25 U	26.3 U	25 U
2-Nitrophenol	9.62 U	9.62 U	9.62 R	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
3,3'-Dichlorobenzidine	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
3-Nitroaniline	24 U	24 U	24 U	24.5 U	26.3 U	24.5 U	24.5 U	26.3 U	25 U	26.3 U	25 U
4,6-Dinitro-2-methylphenol	9.62 U	9.62 U	9.62 R	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
4-Bromophenyl-phenylether	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
4-Chloro-3-methylphenol	9.62 U	9.62 U	9.62 R	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
4-Chloroaniline	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
4-Chlorophenyl-phenylether	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
4-Methylphenol	9.62 UJ	9.62 UJ	9.62 R	9.8 UJ	10.5 UJ	9.8 UJ	9.8 U	10.5 U	10 U	10.5 U	10 U
4-Nitroaniline	24 U	24 U	24 U	24.5 U	26.3 U	24.5 U	24.5 U	26.3 U	25 U	26.3 U	25 U
4-Nitrophenol	24 U	24 U	24 R	24.5 U	26.3 U	24.5 U	24.5 U	26.3 U	25 U	26.3 U	25 U
Acenaphthene	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Acenaphthylene	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Acetophenone	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Anthracene	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Atrazine	9.62 UJ	9.62 UJ	9.62 UJ	9.8 UJ	10.5 UJ	9.8 UJ	9.8 UJ	10.5 UJ	10 UJ	10.5 UJ	10 UJ
Benzaldehyde	9.62 UJ	9.62 UJ	9.62 UJ	9.8 UJ	10.5 UJ	9.8 UJ	9.8 UJ	10.5 UJ	10 UJ	10.5 UJ	10 UJ
Benzo(a)anthracene	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Benzo(a)pyrene	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Benzo(b)fluoranthene	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Benzo(g,h,i)perylene	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Benzo(k)fluoranthene	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
bis(2-Chloroethoxy)methane	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
bis(2-Chloroethyl)ether	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
bis(2-Chloroisopropyl)ether	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
bis(2-Ethylhexyl)phthalate	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Butylbenzylphthalate	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Caprolactam	9.62 UJ	9.62 UJ	9.62 UJ	9.8 UJ	10.5 UJ	9.8 UJ	9.8 UJ	10.5 UJ	10 UJ	10.5 UJ	10 UJ
Carbazole	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Chrysene	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Dibenz(a,h)anthracene	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Dibenzofuran	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Diethylphthalate	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Dimethyl phthalate	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Di-n-butylphthalate	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Di-n-octylphthalate	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Fluoranthene	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Fluorene	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Hexachlorobenzene	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Hexachlorobutadiene	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Hexachlorocyclopentadiene	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Hexachloroethane	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Indeno(1,2,3-cd)pyrene	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Isophorone	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Naphthalene	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
n-Nitroso-di-n-propylamine	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
n-Nitrosodiphenylamine	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Nitrobenzene	0.24 U	0.224 U	0.24 U	0.235 U	0.24 U	0.24 U	0.24 U	0.235 U	0.24 U	0.24 U	0.24 U
Pentachlorophenol	24 U	24 U	24 R	24.5 U	26.3 U	24.5 U	24.5 U	26.3 U	25 U	26.3 U	25 U
Phenanthrene	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Phenol	9.62 U	9.62 U	9.62 R	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Pyrene	9.62 U	9.62 U	9.62 U	9.8 U	10.5 U	9.8 U	9.8 U	10.5 U	10 U	10.5 U	10 U
Explosives (µg/l)											
1,3,5-Trinitrobenzene	0.24 U	0.224 U	0.24 U	0.235 U	0.24 U	0.24 U	0.24 U	0.235 U	0.24 U	0.24 U	0.24 U
1,3-Dinitrobenzene	0.24 U	0.224 U	0.24 U	0.235 U	0.24 U	0.24 U	0.24 U	0.235 U	0.24 U	0.24 U	0.252 U
2,4,6-Trinitrotoluene	0.24 U	0.224 U	0.24 U	0.235 U	0.24 U	0.24 U	0.24 U	0.235 U	0.24 U	0.24 U	0.24 U
2-Amino-4,6-dinitrotoluene	0.24 U	0.224 U	0.24 U	0.235 U	0.24 U	0.24 U	0.24 U	0.235 U	0.24 U	0.24 U	0.24 U
2-Nitrotoluene	0.24 U	0.224 U	0.24 U	0.235 U	0.24 U	0.28 U	0.24 U	0.235 U	0.24 U	0.24 U	0.24 U
3-Nitrotoluene	0.593 U	0.466 U	0.24 U	0.235 U	0.24 U	0.24 U	0.24 U	0.235 U	0.24 U	0.24 U	0.24 U
4-Amino-2,6-dinitrotoluene	0.24 U	0.224 U	0.24 U	0.235 U	0.24 U	0.24 U	0.24 U	0.235 U	0.24 U	0.24 U	0.24 U
4-Nitrotoluene	0.24 U	0.224 U	0.24 U	0.235 U	0.24 U	0.24 U	0.24 U	0.235 U	0.24 U	0.24 U	0.24 U
HMX	0.24 UJ	0.224 UJ	0.24 UJ	0.235 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.235 UJ	0.24 UJ	0.24 UJ	0.24 UJ
Perchlorate	0.2 U	0.2 U	0.2 U	0.0843 J	0.0821 J	0.2 U	0.292	0.2 U	0.0866 J	0.627	0.316
PETN	1.2 U	1.12 U	1.2 U	1.18 U	1.2 U	1.2 U	1.2 U	1.18 U	1.2 U	1.2 U	1.2 U
RDX	0.381 U	0.224 U	0.324 U	0.235 U	0.24 U	0.267 U	0.241 U	0.235 U	0.24 U	0.24 U	0.24 U
Tetryl	0.24 U	0.224 U	0.24 U	0.235 U	0.24 U	0.24 U	0.24 U	0.235 U	0.24 U	0.24 U	0.24 U
Total Metals (µg/l)											
Aluminum	629 J	675 J	1,980 J	155 J	378 J	107 J	176 J	203 J	226	301 J	266 J
Antimony	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	2.5 U	2.5 U
Arsenic	1.5 U	1.5 U	2.07	1.5 U	1.5 U	0.886 J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Barium	145	146	35.1	24	80.1	16	32.1	13.4	51.3	23.6	43.2
Beryllium	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U
Cadmium	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	490 J	512 J	1,260	810 J	1,760	76,300	1,280	58,300	1,300 J	9,310	1,200 J
Chromium	1.12	1.19	2.74	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cobalt	1.99 J	1.97 J	3.12 U	3.12 U	3.12 U	3.12 U	3.12 U	3.12 U	3.12 U	3.12 U	3.12 U
Copper	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Iron	2,830	2,820	1,830	164	44.1	1,490	101	490	42.4 UJ	82.8	99
Lead	0.75 U	0.75 U	0.651 J	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Magnesium	3,820	3,840	623 J	1,130 J	3,100	1,620	1,730	1,510	1,660	2,150	2,190
Manganese	12.1	12.2	5.05	3.77	7.66	20.1	3.08 J	2.31 J	5.24	3.22 J	7.22
Mercury	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	3.45	3.48	0.929 J	2.5 U	1.14 J	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Potassium	660 J	670 J	964 J	613 J	1,020 J	1,010 J	585 J	1,250 U	1,110 J	704 J	758 J
Selenium	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.2 J	1.5 U
Silver	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 R	1.25 U	1.25 U
Sodium	14,400	14,500	6,140	5,970	10,800	6,070	7,730	2,290	5,530	3,400	6,260
Thallium	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Vanadium	1.8 J	1.77 J	3.22	3.12 U	3.12 U	3.12 U	3.12 U	1.82 J	3.12 U	3.12 U	3.12 U
Zinc	5.37	5.53	2.26 J	2.17 J	2.49 J	2.46 J	1.85 J	5 U	5.34	5 U	1.41 J

Notes:
Shading indicates detections
NA - Not analyzed
J - Analyte present, value may or may not be accurate or precise
R - Unreliable Result
U - The material was analyzed for, but not detected
UJ - Analyte not detected, quantitation limit may be inaccurate
µg/l - Micrograms per liter

CTO-40
Camp Lejeune - UXO-21
Validated Sediment Raw Analytical Results
March 2010

Station ID	MR21-SD/SW01	MR21-SD/SW02		MR21-SD/SW03	MR21-SD/SW04	MR21-SD/SW05	MR21-SD/SW06
Sample ID	MR21-SD01-10B	MR21-SD02-10B	MR21-SD02D-10B	MR21-SD03-10B	MR21-SD04-10B	MR21-SD05-10B	MR21-SD06-10B
Sample Date	04/11/10	04/11/10	04/11/10	04/11/10	04/11/10	04/11/10	04/11/10
Chemical Name							
Volatile Organic Compounds (µg/kg)							
1,1,1-Trichloroethane	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
1,1,2,2-Tetrachloroethane	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
1,1,2-Trichloro-1,2,2-trifluoroethane(Freon-113)	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
1,1,2-Trichloroethane	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
1,1-Dichloroethane	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
1,1-Dichloroethene	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
1,2,4-Trichlorobenzene	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 UJ	10.3 U
1,2-Dibromo-3-chloropropane	5.65 U	6.59 U	6.42 U	5.99 U	5.78 U	5.54 U	5.13 U
1,2-Dibromoethane	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
1,2-Dichlorobenzene	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 UJ	10.3 U
1,2-Dichloroethane	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
1,2-Dichloropropane	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
1,3-Dichlorobenzene	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 UJ	10.3 U
1,4-Dichlorobenzene	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 UJ	10.3 U
2-Butanone	9.01 J	21.7	27.8	12 U	11.6 U	11.1 U	10.3 U
2-Hexanone	11.3 U	13.2 U	3.25 J	12 U	11.6 U	11.1 U	10.3 U
4-Methyl-2-pentanone	1.97 J	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
Acetone	153	355 J	368 J	83.9	28.7 U	40.6 U	22.9 U
Benzene	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
Bromodichloromethane	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
Bromoform	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
Bromomethane	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
Carbon disulfide	11.3 U	13.2 U	12.8 U	4.45 J	11.6 U	11.1 U	10.3 U
Carbon tetrachloride	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
Chlorobenzene	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 UJ	10.3 U
Chloroethane	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
Chloroform	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
Chloromethane	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
cis-1,2-Dichloroethene	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
cis-1,3-Dichloropropene	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 UJ	10.3 U
Cyclohexane	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
Dibromochloromethane	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
Dichlorodifluoromethane (Freon-12)	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
Ethylbenzene	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 UJ	10.3 U
Isopropylbenzene	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 UJ	10.3 U
Methyl acetate	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 UJ	10.3 U
Methylcyclohexane	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 UJ	10.3 U
Methylene chloride	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
Methyl-tert-butyl ether (MTBE)	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
Styrene	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 UJ	10.3 U
Tetrachloroethene	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
Toluene	26.4	661 J	694	1.95 J	11.6 U	11.1 U	10.3 U
trans-1,2-Dichloroethene	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
trans-1,3-Dichloropropene	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
Trichloroethene	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 UJ	10.3 U
Trichlorofluoromethane(Freon-11)	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
Vinyl chloride	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 U	10.3 U
Xylene, total	11.3 U	13.2 U	12.8 U	12 U	11.6 U	11.1 UJ	10.3 U
Semivolatile Organic Compounds (µg/kg)							
1,1-Biphenyl	338 U	365 U	373 U	369 U	336 U	347 U	316 U
2,4,5-Trichlorophenol	676 U	730 U	746 U	738 U	673 U	693 U	633 U
2,4,6-Trichlorophenol	338 U	365 U	373 U	369 U	336 U	347 U	316 U
2,4-Dichlorophenol	338 U	365 U	373 U	369 U	336 U	347 U	316 U
2,4-Dimethylphenol	338 U	365 U	373 U	369 U	336 U	347 U	316 U
2,4-Dinitrophenol	676 UJ	730 UJ	746 UJ	738 UJ	673 UJ	693 UJ	633 UJ
2,4-Dinitrotoluene	100 U	41.6 J	72 J	38.5 J	100 U	100 U	100 U
2,6-Dinitrotoluene	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2-Chloroacetophenone	338 U	365 U	373 U	369 U	336 U	347 U	316 U
2-Chlorobenzalmalononitrile	338 U	365 U	373 U	369 U	336 U	347 U	316 U
2-Chloronaphthalene	338 U	365 U	373 U	369 U	336 U	347 U	316 U
2-Chlorophenol	338 U	365 U	373 U	369 U	336 U	347 U	316 U
2-Methylnaphthalene	338 U	365 U	373 U	369 U	336 U	347 U	316 U
2-Methylphenol	338 U	365 U	373 U	369 U	336 U	347 U	316 U
2-Nitroaniline	676 U	730 U	746 U	738 U	673 U	693 U	633 U
2-Nitrophenol	338 U	365 U	373 U	369 U	336 U	347 U	316 U
3,3'-Dichlorobenzidine	338 U	365 U	373 U	369 U	336 U	347 U	316 U
3-Nitroaniline	676 U	730 U	746 U	738 U	673 U	693 U	633 U
4,6-Dinitro-2-methylphenol	676 UJ	730 UJ	746 UJ	738 UJ	673 UJ	693 UJ	633 UJ
4-Bromophenyl-phenylether	338 U	365 U	373 U	369 U	336 U	347 U	316 U
4-Chloro-3-methylphenol	338 U	365 U	373 U	369 U	336 U	347 U	316 U
4-Chloroaniline	338 U	365 U	373 U	369 U	336 U	347 U	316 U
4-Chlorophenyl-phenylether	338 U	365 U	373 U	369 U	336 U	347 U	316 U
4-Methylphenol	338 U	211 J	295 J	369 U	336 U	347 U	316 U
4-Nitroaniline	676 U	730 U	746 U	738 U	673 U	693 U	633 U
4-Nitrophenol	676 U	730 U	746 U	738 U	673 U	693 U	633 U
Acenaphthene	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Acenaphthylene	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Acetophenone	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Anthracene	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Atrazine	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Benzaldehyde	338 R	90.8 J	108 J	369 R	336 R	347 R	316 R
Benzo(a)anthracene	67.6 U	3.31 J	4.02 J	7.06 J	67.3 U	69.3 U	63.3 U
Benzo(a)pyrene	9.01 U	9.73 U	9.95 U	9.84 U	8.98 U	9.25 U	8.44 U
Benzo(b)fluoranthene	67.6 U	8.17 J	7.94 J	11.5 J	5.86 J	7.99 J	63.3 U
Benzo(g,h,i)perylene	338 UJ	365 UJ	373 UJ	369 UJ	336 UJ	347 UJ	316 UJ
Benzo(k)fluoranthene	338 U	365 U	373 U	369 U	336 U	347 U	316 U
bis(2-Chloroethoxy)methane	338 U	365 U	373 U	369 U	336 U	347 U	316 U
bis(2-Chloroethyl)ether	338 U	365 U	373 U	369 U	336 U	347 U	316 U
bis(2-Chloroisopropyl)ether	338 U	365 U	373 U	369 U	336 U	347 U	316 U
bis(2-Ethylhexyl)phthalate	338 U	365 U	248 J	369 U	336 U	227 J	316 U

Station ID	MR21-SD/SW01	MR21-SD/SW02		MR21-SD/SW03	MR21-SD/SW04	MR21-SD/SW05	MR21-SD/SW06
Sample ID	MR21-SD01-10B	MR21-SD02-10B	MR21-SD02D-10B	MR21-SD03-10B	MR21-SD04-10B	MR21-SD05-10B	MR21-SD06-10B
Sample Date	04/11/10	04/11/10	04/11/10	04/11/10	04/11/10	04/11/10	04/11/10
Chemical Name							
Butylbenzylphthalate	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Caprolactam	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Carbazole	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Chrysene	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Dibenz(a,h)anthracene	9.01 U	9.73 U	9.95 U	9.84 U	8.98 U	9.25 U	8.44 U
Dibenzofuran	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Diethylphthalate	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Dimethyl phthalate	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Di-n-butylphthalate	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Di-n-octylphthalate	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Fluoranthene	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Fluorene	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Hexachlorobenzene	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Hexachlorobutadiene	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Hexachlorocyclopentadiene	338 U	365 U	373 U	369 U	336 U	347 R	316 U
Hexachloroethane	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Indeno(1,2,3-cd)pyrene	67.6 U	73 U	74.6 U	73.8 U	67.3 U	69.3 U	63.3 U
Isophorone	67.6 U	73 U	74.6 U	73.8 U	67.3 U	69.3 U	63.3 U
Naphthalene	338 U	365 U	373 U	369 U	336 U	347 U	316 U
n-Nitroso-di-n-propylamine	101 UJ	109 UJ	112 UJ	111 UJ	101 UJ	104 UJ	94.9 UJ
n-Nitrosodiphenylamine	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Nitrobenzene	100 U	100 U	82.5 J	62 J	100 U	46.4 J	100 U
Pentachlorophenol	23 U	24.8 U	25.4 U	25.1 U	22.9 U	23.6 U	21.5 U
Phenanthrene	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Phenol	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Pyrene	338 U	365 U	373 U	369 U	336 U	347 U	316 U
Explosives (µg/kg)							
1,3,5-Trinitrobenzene	100 U	200 J	103 J	45.8 J	100 U	100 U	100 U
1,3-Dinitrobenzene	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2,4,6-Trinitrotoluene	100 U	100 U	100 U	61.3 J	100 U	45.6 J	100 U
2-Amino-4,6-dinitrotoluene	100 U	100 U	100 U	100 U	100 U	100 U	100 U
2-Nitrotoluene	100 U	67.2 J	100 U	51.2 J	100 U	100 U	100 U
3-Nitrotoluene	100 U	100 U	100 U	100 U	100 U	100 U	100 U
4-Amino-2,6-dinitrotoluene	100 U	687 J	100 U	100 U	100 U	100 U	100 U
4-Nitrotoluene	100 U	60.3 J	100 U	100 U	100 U	100 U	100 U
HMX	100 U	68.3 J	100 U	100 U	100 U	100 U	100 U
Perchlorate	2.7 U	2.92 U	2.98 U	2.95 U	2.69 U	2.77 U	2.53 U
PETN	167 U	167 U	167 U	167 U	167 U	167 U	167 U
RDX	100 U	310 J	129 J	90.6 J	100 U	65.9 J	113 J
Tetryl	100 U	74.9 J	141 J	222 J	100 U	125 J	64.7 J
Total Metals (mg/kg)							
Aluminum	1,440	2,030	2,030	1,280	729	657	382
Antimony	0.965 U	1.05 U	1.09 U	1.06 U	0.985 U	1.01 U	0.935 U
Arsenic	0.235 J	0.232 J	0.31 J	0.355 U	0.328 U	0.336 U	0.312 U
Barium	8.22	11.4	11.6	8.35	3.5	3.2	1.99 J
Beryllium	0.322 U	0.351 U	0.362 U	0.0796 J	0.328 U	0.336 U	0.312 U
Cadmium	0.322 U	0.351 U	0.362 U	0.355 U	0.328 U	0.336 U	0.312 U
Calcium	898 J	1,770 J	1,850 J	968 J	242 J	487 J	116 J
Chromium	1.78	2.57	2.44	1.72	1.3	1.39	1
Cobalt	0.804 U	0.877 U	0.905 U	0.886 U	0.821 U	0.841 U	0.779 U
Copper	0.742	1.07	1.02	0.973	3.67	0.534 J	0.624 U
Iron	660	606	609	1,050	355	312	182
Lead	3.9	6.69	6.73	3.66	3.05	3.11	2.09
Magnesium	72.6 J	100 J	97.3 J	355 U	328 U	336 U	312 U
Manganese	3.15	8.69	8.83	2.04	1.62	1.15	1.65
Mercury	0.0432 U	0.0241 J	0.0215 J	0.0487 U	0.036 U	0.0361 U	0.0348 U
Nickel	0.987	0.935	0.917	0.672 J	0.331 J	0.429 J	0.624 U
Potassium	66.4 J	99.9 J	97.8 J	355 U	328 U	336 U	312 U
Selenium	0.386 U	0.242 J	0.435 U	0.425 U	0.394 U	0.404 U	0.374 U
Silver	0.322 U	0.351 U	0.362 U	0.355 U	0.328 U	0.336 U	0.312 U
Sodium	322 U	351 U	362 U	355 U	328 U	336 U	312 U
Thallium	0.515 U	0.561 U	0.579 U	0.567 U	0.525 U	0.538 U	0.499 U
Vanadium	2.69	2.78	2.7	2.04	1.36	1.23	0.957
Zinc	3.23	4.08	3.85	11	6.82	7.46	3.43

Notes:

Shading indicates detections

NA - Not analyzed

J - Analyte present, value may or may not be accurate or precise

R - Unreliable Result

U - The material was analyzed for, but not detected

UJ - Analyte not detected, quantitation limit may be inaccurate

mg/kg - Milligrams per kilogram

µg/kg - Micrograms per kilogram

CTO-40
Camp Lejeune - UXO-21
Validated Surface Water Raw Analytical Results
March 2010

Station ID	MR21-SD/SW01		MR21-SD/SW02	MR21-SD/SW03	MR21-SD/SW04	MR21-SD/SW05	MR21-SD/SW06
Sample ID	MR21-SW01-10B	MR21-SW01D-10B	MR21-SW02-10B	MR21-SW03-10B	MR21-SW04-10B	MR21-SW05-10B	MR21-SW06-10B
Sample Date	04/11/10	04/11/10	04/11/10	04/11/10	04/11/10	04/11/10	04/11/10
Chemical Name							
Volatile Organic Compounds (µg/l)							
1,1,1-Trichloroethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-trifluoroethane(Freon-113)	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-chloropropane	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
1,2-Dibromoethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U
2-Hexanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U
4-Methyl-2-pentanone	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	5.83 R	5 R	7.1 R	5 R	5 R	5 R	5 R
Benzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	1 U	1 U	1 U	1 UJ	1 U	1 U	1 U
Bromomethane	1 U	1 U	1 U	1 U	1 UJ	1 U	1 U
Carbon disulfide	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon tetrachloride	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Chloroform	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	4.59 UJ	2.07 UJ	12.2 UJ	1.43 UJ	2.02 UJ	2.87 UJ	1.84 UJ
cis-1,2-Dichloroethene	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibromochloromethane	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane (Freon-12)	1 U	1 U	1 U	1 UJ	1 UJ	1 U	1 U
Ethylbenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl acetate	1.5 U	1.5 U	1.5 U	1.5 UJ	1.5 UJ	1.5 U	1.5 U
Methylcyclohexane	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene chloride	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Methyl-tert-butyl ether (MTBE)	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1.99	2.44	3.58	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
trans-1,3-Dichloropropene	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichlorofluoromethane(Freon-11)	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ	1 UJ
Xylene, total	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Semivolatile Organic Compounds (µg/l)							
1,1-Biphenyl	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
2,4,5-Trichlorophenol	24 U	24.5 U	25 U	25 U	23.6 U	25 U	23.6 U
2,4,6-Trichlorophenol	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
2,4-Dichlorophenol	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
2,4-Dimethylphenol	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
2,4-Dinitrophenol	24 U	24.5 U	25 U	25 U	23.6 U	25 U	23.6 U
2,4-Dinitrotoluene	0.226 U	0.24 U	0.24 U	0.24 U	0.226 U	0.235 U	0.226 U
2,6-Dinitrotoluene	0.226 U	0.24 U	0.24 U	0.24 U	0.226 U	0.235 U	0.226 U
2-Chloroacetophenone	4.81 U	4.9 U	5 U	5 U	4.72 U	5 U	4.72 U
2-Chlorobenzalmalononitrile	4.81 UJ	4.9 UJ	5 UJ	5 UJ	4.72 UJ	5 UJ	4.72 UJ
2-Chloronaphthalene	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
2-Chlorophenol	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
2-Methylnaphthalene	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
2-Methylphenol	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
2-Nitroaniline	24 U	24.5 U	25 U	25 U	23.6 U	25 U	23.6 U
2-Nitrophenol	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
3,3'-Dichlorobenzidine	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
3-Nitroaniline	24 U	24.5 U	25 U	25 U	23.6 U	25 U	23.6 U
4,6-Dinitro-2-methylphenol	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
4-Bromophenyl-phenylether	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
4-Chloro-3-methylphenol	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
4-Chloroaniline	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
4-Chlorophenyl-phenylether	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
4-Methylphenol	9.62 U	9.8 U	10 UJ	10 UJ	9.43 U	10 UJ	9.43 UJ
4-Nitroaniline	24 U	24.5 U	25 U	25 U	23.6 U	25 U	23.6 U
4-Nitrophenol	24 U	24.5 U	25 U	25 U	23.6 U	25 U	23.6 U
Acenaphthene	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Acenaphthylene	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Acetophenone	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Anthracene	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Atrazine	9.62 UJ	9.8 UJ	10 UJ	10 UJ	9.43 UJ	10 UJ	9.43 UJ
Benzaldehyde	9.62 U	9.8 U	10 UJ	10 UJ	9.43 U	10 UJ	9.43 UJ
Benzo(a)anthracene	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Benzo(a)pyrene	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Benzo(b)fluoranthene	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Benzo(g,h,i)perylene	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Benzo(k)fluoranthene	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
bis(2-Chloroethoxy)methane	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
bis(2-Chloroethyl)ether	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
bis(2-Chloroisopropyl)ether	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
bis(2-Ethylhexyl)phthalate	2.53 J	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Butylbenzylphthalate	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Caprolactam	9.62 UJ	9.8 UJ	10 UJ	10 UJ	9.43 UJ	10 UJ	9.43 UJ
Carbazole	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U

Station ID	MR21-SD/SW01		MR21-SD/SW02	MR21-SD/SW03	MR21-SD/SW04	MR21-SD/SW05	MR21-SD/SW06
Sample ID	MR21-SW01-10B	MR21-SW01D-10B	MR21-SW02-10B	MR21-SW03-10B	MR21-SW04-10B	MR21-SW05-10B	MR21-SW06-10B
Sample Date	04/11/10	04/11/10	04/11/10	04/11/10	04/11/10	04/11/10	04/11/10
Chemical Name							
Chrysene	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Dibenz(a,h)anthracene	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Dibenzofuran	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Diethylphthalate	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Dimethyl phthalate	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Di-n-butylphthalate	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Di-n-octylphthalate	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Fluoranthene	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Fluorene	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Hexachlorobenzene	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Hexachlorobutadiene	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Hexachlorocyclopentadiene	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Hexachloroethane	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Indeno(1,2,3-cd)pyrene	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Isophorone	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Naphthalene	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
n-Nitroso-di-n-propylamine	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
n-Nitrosodiphenylamine	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Nitrobenzene	0.226 U	0.24 U	0.24 U	0.24 U	0.226 U	0.235 U	0.226 U
Pentachlorophenol	24 U	24.5 U	25 U	25 U	23.6 U	25 U	23.6 U
Phenanthrene	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Phenol	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Pyrene	9.62 U	9.8 U	10 U	10 U	9.43 U	10 U	9.43 U
Explosives (µg/l)							
1,3,5-Trinitrobenzene	0.226 U	0.24 U	0.24 U	0.24 U	0.226 U	0.235 U	0.226 U
1,3-Dinitrobenzene	0.226 U	0.24 U	0.24 U	0.24 U	0.226 U	0.235 U	0.226 U
2,4,6-Trinitrotoluene	0.226 U	0.24 U	0.252 U	0.24 U	0.226 U	0.235 U	0.226 U
2-Amino-4,6-dinitrotoluene	0.226 U	0.24 U	0.24 U	0.24 U	0.226 U	0.235 U	0.226 U
2-Nitrotoluene	0.226 U	0.24 U	0.24 U	0.24 U	0.226 U	0.235 U	0.226 U
3-Nitrotoluene	0.226 U	0.24 U	0.24 U	0.24 U	0.226 U	0.235 U	0.226 U
4-Amino-2,6-dinitrotoluene	0.226 U	0.24 U	0.24 U	0.24 U	0.226 U	0.235 U	0.226 U
4-Nitrotoluene	0.226 U	0.24 U	0.24 U	0.24 U	0.226 U	0.235 U	0.226 U
HMX	0.226 UJ	0.24 UJ	0.24 UJ	0.24 UJ	0.226 UJ	0.235 UJ	0.226 UJ
Perchlorate	0.2 U	0.2 U	0.2 U	0.0772 J	0.2 U	0.2 U	0.17 J
PETN	1.13 U	1.2 U	1.2 U	1.2 U	1.13 U	1.18 U	1.13 U
RDX	0.249 U	0.24 U	0.62 U	0.391 U	0.226 U	0.235 U	0.293 U
Tetryl	0.226 U	0.24 U	0.24 U	0.24 U	0.226 U	0.235 U	0.226 U
Total Metals (µg/l)							
Aluminum	393 J	453 J	292 J	479 J	478 J	617 J	634 J
Antimony	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Arsenic	2.55	2.75	1.13 J	1.5 U	1.5 U	1.5 U	1.5 U
Barium	19.7	22	27.6	34.3	32.6	36.5	34.9
Beryllium	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U
Cadmium	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Calcium	21,500	24,200	21,000	34,200	31,300	22,500	20,700
Chromium	1.01	1.09	0.792 J	0.573 J	0.53 J	0.629 J	0.756 J
Cobalt	3.12 U	3.12 U	3.12 U	3.12 U	3.12 U	3.12 U	3.12 U
Copper	2.5 U	1.3 J	2.06 J	2.5 U	2.5 U	2.5 U	2.5 U
Iron	2,540	3,270	409	844	784	696	726
Lead	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Magnesium	1,030 J	1,140 J	1,430	1,450	1,380	1,370	1,330
Manganese	60	72	178	21.3	19.7	18.9	19.1
Mercury	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
Nickel	1.39 J	1.53 J	1.37 J	1.2 J	1.18 J	1.37 J	1.49 J
Potassium	757 J	929 J	1,450	839 J	808 J	721 J	705 J
Selenium	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Silver	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U	1.25 U
Sodium	6,180	7,000	8,330	8,030	7,740	7,770	7,650
Thallium	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Vanadium	1.31 J	1.61 J	3.12 U	3.12 U	3.12 U	3.12 U	3.12 U
Zinc	5.98	9.62	4.75 J	6.55	5.91	8.19	8.47

Notes:
Shading indicates detections
NA - Not analyzed
J - Analyte present, value may or may not be accurate or precise
R - Unreliable Result
U - The material was analyzed for, but not detected
UJ - Analyte not detected, quantitation limit may be inaccurate
µg/l - Micrograms per liter

Appendix B
Munitions Debris Disposal Documents

DD FORM 1348-1A, JUL 91 (EG) ISSUE RELEASE/RECEIPT DOCUMENT

1 DOC	2 IDENT	3	4 RI FROM	5 M&S	6	7	23 UNIT	24 ISS	25 QUANTITY	26	27	28	29	45 SER	46 SUPPLEMENTARY ADDRESS	47	48	49	50	51 SIG	52 FUND	53	54 DISTRIBUTION	55	56	57 PROJECT	58	59	60	61 PRI	62 REQD	63 DEL	64 DATE	65 ADV	66	67	68	69 RI	70 O/P	71 COND	72 MGT	73

74 UNIT PRICE DOLLARS	75	76	77	78	79	80 CTS	1. TOTAL PRICE DOLLARS	CTS	2. SHIP FROM	3. SHIP TO
									4. MARK FOR	

5. DOC DATE	6. NMFC	7. FRT RATE	8. TYPE CARGO	9. PS

10. QTY. REC'D	11. UP	12. UNIT WEIGHT	13. UNIT CUBE	14. UFC	15. SL

16. FREIGHT CLASSIFICATION NOMENCLATURE
MDAS (UXO-21)

17. ITEM NOMENCLATURE
VARIOUS (SEE BELOW)

18. TY CONT	19. NO CONT	20. TOTAL WEIGHT	21. TOTAL CUBE
	1	25 LBS	

22. RECEIVED BY

23. DATE RECEIVED

24. DOCUMENT NUMBER & SUFFIX (30-44)

Container # -

25. NATIONAL STOCK NO. & ADD (8-22)

MARSYSCOM, Site UXO-21
Camp LeJeune, NC

Seal # -

26. RIC (4-6) UI (23-24) QTY (25-29) CON CODE (71) DIST (55-56) UP (74-80)

This certifies that the material potentially presenting an explosive hazard listed has been 100 percent properly inspected and to the best of our knowledge and belief, is inert and/or free of explosives."

(1) 40mm CTG CASE EXPENDED
(8) M19A1, Signal, Grenade, Rifle EXPENDED
(2) M1 Illumination, Grenade, Hand
(3) M22 series Grenade, Rifle, Smoke EXPENDED
(3) M127A1 FLARE HAND EXPENDED
(14) RIFLE GRENADE MOTORS EXPENDED
(1) M18 GRENADE SMK HALF BODY EXPENDED
(1) MK II PRACTICE HAND GRENADE EXPENDED
(114) SMALL ARM CTGS EXPENDED
(1) 3.5" RKT MOTOR EXPENDED

27. ADDITIONAL DATA

Jim Keesee 8/30/11
~~David [illegible]~~ (SUXOS)
USA Environmental
Cell: (410) 228-7744

8/30/11
Chris Renkema (UXOQCS/UXOSO)
CH2M HILL, Inc.
Cell: 832-331-2474

PREVIOUS EDITION MAY BE USED

Adobe Designer 8.0

Appendix C
MEC Intrusive Investigation Documents

TABLE C-1
MEC Intrusive Investigation Results
Site UXO-21
MCB CamLej, North Carolina

Anomaly Identification	Grid	Amplitude (millivolts)	Dig Date	Easting (UTM)	Northing (UTM)	Item Group	Item Class	Category	Filler	Fuze	Quantity	Depth (inch)	Weight (pound)	Action Taken	Demolition Required?	Item Comment
UXO21_TL10-00001	UXO21_TL10	24	8/18/2011	287389.7	3838208.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	12	4	Scrap Bin	None	
UXO21_TL10-00002	UXO21_TL10	121.8	8/20/2011	287376.3	3838236.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	12	20	Scrap Bin	None	Large empty fuel can
UXO21_TL10-00003	UXO21_TL10	65.77	8/20/2011	287375.8	3838238.1	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction site
UXO21_TL10-00004	UXO21_TL10	33.78	8/24/2011	287282.8	3838413.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	1	Scrap Bin	None	
UXO21_TL10-00005	UXO21_TL10	25.36	8/24/2011	287266.4	3838447.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	4	Scrap Bin	None	
UXO21_TL10-00006	UXO21_TL10	13.09	8/24/2011	287260.5	3838455.1	MPPEH	Grenade	M20A1, Grenade, Rifle, Star, Cluster, Green	Empty	Unfuzed	1	1	1	Consolidation Point	Demil	
UXO21_TL10-00007	UXO21_TL10	20.03	8/24/2011	287259.6	3838456.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	1	Scrap Bin	None	
UXO21_TL1-00001	UXO21_TL1	152.59	8/20/2011	287469.7	3838268.5	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00002	UXO21_TL1	604.8	8/20/2011	287468.4	3838271	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00003	UXO21_TL1	10.85	8/20/2011	287467.2	3838273.5	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00004	UXO21_TL1	3.82	8/20/2011	287466.2	3838275.2	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00005	UXO21_TL1	3.17	8/20/2011	287465.9	3838275.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00006	UXO21_TL1	3.92	8/20/2011	287465.2	3838277.2	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00007	UXO21_TL1	8.29	8/20/2011	287464.9	3838277.9	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00008	UXO21_TL1	4.73	8/20/2011	287464.6	3838278.5	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00009	UXO21_TL1	6.75	8/20/2011	287464.1	3838279.4	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00010	UXO21_TL1	13.78	8/20/2011	287463.5	3838280.5	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00011	UXO21_TL1	19.69	8/20/2011	287463.2	3838281.1	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00012	UXO21_TL1	9.58	8/20/2011	287462.8	3838281.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00013	UXO21_TL1	19.58	8/20/2011	287461.4	3838284.5	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00014	UXO21_TL1	3.03	8/20/2011	287461.1	3838285.1	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00015	UXO21_TL1	9.89	8/20/2011	287460.7	3838285.9	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00016	UXO21_TL1	22.33	8/20/2011	287459.6	3838288.1	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00017	UXO21_TL1	24.92	8/20/2011	287459.3	3838288.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00018	UXO21_TL1	6.05	8/20/2011	287457.6	3838291.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00019	UXO21_TL1	7.43	8/20/2011	287457.4	3838292.2	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00020	UXO21_TL1	10.13	8/20/2011	287456.9	3838293.2	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00021	UXO21_TL1	11.85	8/20/2011	287456.6	3838293.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00022	UXO21_TL1	3.44	8/20/2011	287456.1	3838294.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00023	UXO21_TL1	65.27	8/20/2011	287455.4	3838296	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00024	UXO21_TL1	8.31	8/20/2011	287454.9	3838297.1	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00025	UXO21_TL1	12.69	8/20/2011	287454.5	3838297.9	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00026	UXO21_TL1	15.32	8/20/2011	287453.2	3838300.3	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00027	UXO21_TL1	15.13	8/20/2011	287452.8	3838301.1	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00028	UXO21_TL1	7	8/20/2011	287452.3	3838302	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00029	UXO21_TL1	6.33	8/20/2011	287451.9	3838302.9	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00030	UXO21_TL1	8.82	8/20/2011	287451.3	3838304	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00031	UXO21_TL1	10.81	8/20/2011	287450.8	3838304.9	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00032	UXO21_TL1	9.52	8/20/2011	287449.4	3838307.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00033	UXO21_TL1	8.2	8/20/2011	287448.7	3838309	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00034	UXO21_TL1	4.69	8/20/2011	287448.4	3838309.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00035	UXO21_TL1	11.56	8/20/2011	287447.3	3838311.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00036	UXO21_TL1	9.03	8/20/2011	287447	3838312.4	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00037	UXO21_TL1	20.54	8/20/2011	287445.8	3838314.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00038	UXO21_TL1	8.74	8/20/2011	287445.2	3838315.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00039	UXO21_TL1	10.1	8/20/2011	287444.4	3838317.2	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00040	UXO21_TL1	8.6	8/20/2011	287444	3838318.1	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00041	UXO21_TL1	17.72	8/20/2011	287442.3	3838321.4	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00042	UXO21_TL1	15.79	8/20/2011	287442	3838321.9	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00043	UXO21_TL1	38.12	8/20/2011	287441.1	3838323.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00044	UXO21_TL1	4.03	8/20/2011	287439.6	3838326.5	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00045	UXO21_TL1	3.27	8/20/2011	287438.1	3838329.3	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00046	UXO21_TL1	32.47	8/20/2011	287437.5	3838330.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00047	UXO21_TL1	4.72	8/20/2011	287436.6	3838332.2	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00048	UXO21_TL1	3.59	8/20/2011	287436.2	3838333.1	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00049	UXO21_TL1	14.3	8/20/2011	287435.7	3838334.1	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00050	UXO21_TL1	40.53	8/20/2011	287435.2	3838334.9	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00051	UXO21_TL1	9.05	8/20/2011	287434.4	3838336.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00052	UXO21_TL1	3.84	8/20/2011	287433.7	3838337.9	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00053	UXO21_TL1	11.43	8/20/2011	287433.2	3838338.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00054	UXO21_TL1	9.35	8/20/2011	287432.6	3838339.9	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00055	UXO21_TL1	10.13	8/20/2011	287431.5	3838342.2	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00056	UXO21_TL1	14.22	8/20/2011	287430.1	3838344.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00057	UXO21_TL1	14.17	8/20/2011	287429.5	3838345.9	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00058	UXO21_TL1	9.55	8/20/2011	287429.1	3838346.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00059	UXO21_TL1	5.85	8/20/2011	287428.5	3838347.9	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00060	UXO21_TL1	10.3	8/20/2011	287428.1	3838348.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00061	UXO21_TL1	3.91	8/20/2011	287427.3	3838350.2	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00062	UXO21_TL1	151.2	8/20/2011	287426.5	3838351.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility

TABLE C-1
MEC Intrusive Investigation Results
Site UXO-21
MCB CamLej, North Carolina

Anomaly Identification	Grid	Amplitude (millivolts)	Dig Date	Easting (UTM)	Northing (UTM)	Item Group	Item Class	Category	Filler	Fuze	Quantity	Depth (inch)	Weight (pound)	Action Taken	Demolition Required?	Item Comment
UXO21_TL1-00063	UXO21_TL1	9.23	8/20/2011	287424.2	3838356.2	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00064	UXO21_TL1	7.54	8/20/2011	287422.4	3838359.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00065	UXO21_TL1	5.13	8/20/2011	287421.8	3838360.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00066	UXO21_TL1	5.67	8/20/2011	287419.8	3838364.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00067	UXO21_TL1	7.5	8/20/2011	287419.3	3838365.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00068	UXO21_TL1	4.62	8/20/2011	287418.7	3838366.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00069	UXO21_TL1	17.47	8/20/2011	287417.7	3838368.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00070	UXO21_TL1	5.19	8/20/2011	287417.1	3838369.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00071	UXO21_TL1	9.3	8/20/2011	287416.3	3838371.3	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL1-00072	UXO21_TL1	5.82	8/20/2011	287416.1	3838371.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility
UXO21_TL11-00001	UXO21_TL11	249.23	8/20/2011	287385.9	3838191.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	40	Scrap Bin	None	Snow chains
UXO21_TL11-00002	UXO21_TL11	277.31	8/20/2011	287385.5	3838192.4	Cultural Debris	Scrap	N/A	N/A	N/A	4	4	40	Scrap Bin	None	Cable
UXO21_TL11-00003	UXO21_TL11	67.73	8/20/2011	287383.1	3838196.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	1	Scrap Bin	None	
UXO21_TL11-00004	UXO21_TL11	3.64	8/20/2011	287378.8	3838205.3	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL11-00005	UXO21_TL11	30.55	8/20/2011	287371.9	3838218.7	QC	QC Seed	QC Seed	N/A	N/A	1	4	1	Consolidation Point	None	Seed label destroyed
UXO21_TL11-00006	UXO21_TL11	142.42	8/20/2011	287369.5	3838223.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	12	1	Scrap Bin	None	Metal
UXO21_TL11-00007	UXO21_TL11	4.03	8/20/2011	287361.5	3838238.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.1	Scrap Bin	None	Power lines
UXO21_TL11-00008	UXO21_TL11	3.65	8/24/2011	287282.6	3838390.8	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL11-00009	UXO21_TL11	34.2	8/24/2011	287277.8	3838399.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.02	Scrap Bin	None	
UXO21_TL11-00010	UXO21_TL11	3.23	8/24/2011	287257.9	3838440.6	Shared	Shared Target	Shared	N/A	N/A	0	0	0	Scrap Bin	None	Shared with TL11-011
UXO21_TL11-00011	UXO21_TL11	37.52	8/24/2011	287256.9	3838441.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	3	Scrap Bin	None	
UXO21_TL11-00012	UXO21_TL11	5.42	8/24/2011	287256	3838442.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.02	Scrap Bin	None	
UXO21_TL11-00013	UXO21_TL11	3.25	8/24/2011	287255.3	3838443.6	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.01	Scrap Bin	None	
UXO21_TL11-00014	UXO21_TL11	3.81	8/24/2011	287253.2	3838446.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	
UXO21_TL12-00001	UXO21_TL12	13.62	8/20/2011	287375.3	3838188.4	Shared	Shared Target	Shared	N/A	N/A	0	0	0	Left in Place	None	Shared with TL27-005
UXO21_TL12-00002	UXO21_TL12	3.05	8/20/2011	287374.1	3838191	Cultural Debris	Scrap	N/A	N/A	N/A	2	5	0.25	Scrap Bin	None	Cans
UXO21_TL12-00003	UXO21_TL12	3.53	8/20/2011	287370.8	3838197.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.25	Scrap Bin	None	Mre bag
UXO21_TL12-00004	UXO21_TL12	63.89	8/20/2011	287360.3	3838219.3	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	0.25	Scrap Bin	None	Clamp
UXO21_TL12-00005	UXO21_TL12	4.62	8/20/2011	287355.4	3838225.8	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Area graded
UXO21_TL12-00006	UXO21_TL12	4.16	8/25/2011	287349.4	3838238.3	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction site area graded
UXO21_TL12-00007	UXO21_TL12	4.18	8/25/2011	287347.4	3838242.2	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Constuction site area graded
UXO21_TL12-00008	UXO21_TL12	19.92	8/20/2011	287345.7	3838245.5	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Area graded construction site
UXO21_TL12-00009	UXO21_TL12	379.09	8/24/2011	287271.7	3838386.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	10	Scrap Bin	None	Removed one large piece of scrap metal
UXO21_TL12-00010	UXO21_TL12	64.29	8/24/2011	287259.6	3838408	MPPEH	Grenade	M20A1, Grenade, Rifle, Star, Cluster, Green	Empty	Unfuzed	1	4	1	Consolidation Point	Demil	
UXO21_TL12-00011	UXO21_TL12	3.6	8/24/2011	287251.7	3838427.8	MEC	Grenade	M52A1, Signal, Ground, Cluster, Red	Illum	Unknown	1	8	1	Left in Place	Demo	
UXO21_TL13-00001	UXO21_TL13	5.26	8/25/2011	287339.7	3838233.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	5	2	Scrap Bin	None	
UXO21_TL13-00002	UXO21_TL13	4.7	8/25/2011	287338.2	3838236	Cultural Debris	Scrap	N/A	N/A	N/A	3	2	0.25	Scrap Bin	None	
UXO21_TL13-00003	UXO21_TL13	3.84	8/20/2011	287336.3	3838239.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	0.1	Scrap Bin	None	
UXO21_TL13-00004	UXO21_TL13	3.07	8/24/2011	287266.4	3838374.4	Cultural Debris	Scrap	N/A	N/A	N/A	2	5	0.1	Scrap Bin	None	
UXO21_TL13-00005	UXO21_TL13	3.14	8/24/2011	287264.4	3838378.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.25	Scrap Bin	None	
UXO21_TL13-00006	UXO21_TL13	3.33	8/24/2011	287260.8	3838385.4	Cultural Debris	Scrap	N/A	N/A	N/A	4	4	0.5	Scrap Bin	None	Shared with 7
UXO21_TL13-00007	UXO21_TL13	3.49	8/24/2011	287260.3	3838386.3	Shared	Shared Target	Shared	N/A	N/A	0	0	0	Left in Place	None	Shared with TL13-006
UXO21_TL13-00008	UXO21_TL13	3.44	8/24/2011	287257.3	3838391.6	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL13-00009	UXO21_TL13	4.99	8/24/2011	287237.1	3838431.5	MPPEH	Grenade	M20A1, Grenade, Rifle, Star, Cluster, Green	Empty	Unfuzed	1	8	1	Consolidation Point	Demil	
UXO21_TL14-00001	UXO21_TL14	5.16	8/20/2011	287324.4	3838238.8	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Area graded construction site
UXO21_TL14-00002	UXO21_TL14	4.34	8/25/2011	287320.2	3838246.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	0.1	Scrap Bin	None	
UXO21_TL14-00003	UXO21_TL14	3.31	8/25/2011	287229.7	3838420.3	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL15-00001	UXO21_TL15	4.26	8/18/2011	287328.3	3838207.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.25	Scrap Bin	None	Rust ball
UXO21_TL15-00002	UXO21_TL15	3.66	8/20/2011	287326.7	3838212.2	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction equipment
UXO21_TL15-00003	UXO21_TL15	3.13	8/20/2011	287326.2	3838213	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction equipment
UXO21_TL15-00004	UXO21_TL15	11.6	8/20/2011	287324.1	3838216.3	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL15-00005	UXO21_TL15	4.81	8/20/2011	287322.5	3838218.7	MPPEH	Small Arms	Expended Cartridge Cases (Various Calibers)	Empty	N/A	1	4	0.05	Consolidation Point	Demil	Small arm cartridge case
UXO21_TL15-00006	UXO21_TL15	4.92	8/20/2011	287316.7	3838229.8	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL15-00007	UXO21_TL15	4.07	8/20/2011	287316.4	3838230.5	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL15-00008	UXO21_TL15	4.47	8/20/2011	287315.4	3838232.4	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL15-00009	UXO21_TL15	27.99	8/15/2011	287307.4	3838247.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	1	Consolidation Point	None	
UXO21_TL15-00010	UXO21_TL15	23.79	8/16/2011	287252.6	3838351.1	MPPEH	Small arms	Expended Cartridge Cases (Various Calibers)	Empty	N/A	1	2	0.125	Consolidation Point	Demil	M1 Clip
UXO21_TL15-00011	UXO21_TL15	12.85	8/16/2011	287245.8	3838363.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	2	Consolidation Point	None	
UXO21_TL15-00012	UXO21_TL15	3.13	8/16/2011	287237.4	3838380.4	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL15-00013	UXO21_TL15	7.23	8/25/2011	287235.6	3838384.2	MPPEH	Grenade	M20A1, Grenade, Rifle, Star, Cluster, Green	Empty	Unfuzed	1	4	3	Consolidation Point	Demil	
UXO21_TL15-00014	UXO21_TL15	7.37	8/16/2011	287231.4	3838393.7	Cultural Debris	Scrap	N/A	N/A	N/A	5	4	2	Consolidation Point	None	
UXO21_TL15-00015	UXO21_TL15	3.3	8/16/2011	287230.4	3838395.6	Cultural Debris	Scrap	N/A	N/A	N/A	3	4	0.125	Consolidation Point	None	
UXO21_TL15-00016	UXO21_TL15	4.23	8/16/2011	287229.4	3838397.4	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL15-00017	UXO21_TL15	3.1	8/16/2011	287221.9	3838411.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.01	Consolidation Point	None	
UXO21_TL16-00001	UXO21_TL16	3.97	8/20/2011	287315.6	3838207.3	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction equipment
UXO21_TL16-00002	UXO21_TL16	43.08	8/20/2011	287304.4	3838229.8	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	

TABLE C-1
MEC Intrusive Investigation Results
Site UXO-21
MCB CamLej, North Carolina

Anomaly Identification	Grid	Amplitude (millivolts)	Dig Date	Easting (UTM)	Northing (UTM)	Item Group	Item Class	Category	Filler	Fuze	Quantity	Depth (inch)	Weight (pound)	Action Taken	Demolition Required?	Item Comment
UXO21_TL16-00003	UXO21_TL16	13.5	8/15/2011	287298.3	3838241.4	Shared	Shared Target	Shared	N/A	N/A	1	6	1	Left in Place	None	Shared with TL16-004
UXO21_TL16-00004	UXO21_TL16	8.44	8/15/2011	287297.9	3838242.2	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	No find
UXO21_TL16-00005	UXO21_TL16	34.86	8/15/2011	287248.8	3838337	Cultural Debris	Scrap	N/A	N/A	N/A	8	16	10	Consolidation Point	None	
UXO21_TL16-00006	UXO21_TL16	13.67	8/15/2011	287244.9	3838342.9	Cultural Debris	Scrap	N/A	N/A	N/A	9	6	3	Consolidation Point	None	
UXO21_TL16-00007	UXO21_TL16	31.37	8/15/2011	287244.3	3838344.9	Cultural Debris	Scrap	N/A	N/A	N/A	3	6	2	Consolidation Point	None	
UXO21_TL16-00008	UXO21_TL16	17.13	8/15/2011	287237.2	3838358	Cultural Debris	Scrap	N/A	N/A	N/A	1	5	1	Consolidation Point	None	
UXO21_TL16-00009	UXO21_TL16	28.78	8/15/2011	287227.8	3838377.1	Cultural Debris	Scrap	N/A	N/A	N/A	4	4	5	Consolidation Point	None	
UXO21_TL16-00010	UXO21_TL16	3.28	8/15/2011	287218.4	3838395.3	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	1	Consolidation Point	None	
UXO21_TL17-00001	UXO21_TL17	3.31	8/25/2011	287309.9	3838193.2	Facility Resource	Road	N/A	N/A	N/A	10	0	0	Left in Place	None	Road area graded
UXO21_TL17-00002	UXO21_TL17	41.35	8/25/2011	287305.1	3838200	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Road area graded
UXO21_TL17-00003	UXO21_TL17	3.28	8/20/2011	287303.6	3838203.3	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL17-00004	UXO21_TL17	3.66	8/25/2011	287298	3838218.2	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Pavement
UXO21_TL17-00005	UXO21_TL17	5.21	8/20/2011	287295.6	3838222.9	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL17-00006	UXO21_TL17	14.4	8/20/2011	287295	3838224.1	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL17-00007	UXO21_TL17	14.78	8/15/2011	287292.3	3838229.4	Cultural Debris	Scrap	N/A	N/A	N/A	6	13		Consolidation Point	None	Nail pit
UXO21_TL17-00008	UXO21_TL17	3.66	8/15/2011	287291.2	3838234.3	Cultural Debris	Scrap	N/A	N/A	N/A	1	14	1	Consolidation Point	None	
UXO21_TL17-00009	UXO21_TL17	3.19	8/15/2011	287288	3838238	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	1	Scrap Bin	None	
UXO21_TL17-00010	UXO21_TL17	4.2	8/15/2011	287257	3838297.2	Shared	Shared Target	Shared	N/A	N/A	2	6	1	Left in Place	None	Shared with TL17-009
UXO21_TL17-00011	UXO21_TL17	6.99	8/15/2011	287241.6	3838326.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	8	1.01	Consolidation Point	None	
UXO21_TL17-00012	UXO21_TL17	5.18	8/15/2011	287240.5	3838328.9	Cultural Debris	Scrap	N/A	N/A	N/A	6	12	1	Consolidation Point	None	
UXO21_TL17-00013	UXO21_TL17	38.7	8/15/2011	287239.8	3838330.4	Cultural Debris	Scrap	N/A	N/A	N/A	3	7	1	Consolidation Point	None	
UXO21_TL17-00014	UXO21_TL17	32.09	8/15/2011	287228.6	3838352	Cultural Debris	Scrap	N/A	N/A	N/A	13	6	2	Consolidation Point	None	
UXO21_TL17-00015	UXO21_TL17	3.05	8/15/2011	287225.3	3838358.3	No Contact	No Contact	N/A	N/A	N/A	0	0		Left in Place	None	
UXO21_TL17-00016	UXO21_TL17	3.22	8/15/2011	287224.7	3838359.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	1	Consolidation Point	None	
UXO21_TL17-00017	UXO21_TL17	4.96	8/15/2011	287223.8	3838361.1	Cultural Debris	Scrap	N/A	N/A	N/A	5	3	1	Consolidation Point	None	
UXO21_TL17-00018	UXO21_TL17	4.39	8/15/2011	287216.7	3838374.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	1	Consolidation Point	None	
UXO21_TL17-00019	UXO21_TL17	27.48	8/25/2011	287215.6	3838377.2	QC	QC Seed	QC Seed	N/A	N/A	1	4	1	Consolidation Point	None	
UXO21_TL17-00020	UXO21_TL17	112.09	8/15/2011	287213.4	3838382.1	Cultural Debris	Scrap	N/A	N/A	N/A	4	5	5	Consolidation Point	None	
UXO21_TL18-00001	UXO21_TL18	7.21	8/20/2011	287301.9	3838186.8	Cultural Debris	Scrap	N/A	N/A	N/A	2	2	0.5	Consolidation Point	None	
UXO21_TL18-00002	UXO21_TL18	8.45	8/18/2011	287299.2	3838191.1	MPPEH	Small Arms	Expended Cartridge Cases (Various Calibers)	Empty	N/A	2	4	0.15	Consolidation Point	Demil	
UXO21_TL18-00003	UXO21_TL18	4.94	8/18/2011	287297.9	3838193.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	1	Consolidation Point	None	
UXO21_TL18-00004	UXO21_TL18	4.51	8/18/2011	287297.3	3838194.1	MPPEH	Small Arms	Expended Cartridge Cases (Various Calibers)	Empty	N/A	1	3	0.15	Consolidation Point	Demil	1 small arms cartridge case
UXO21_TL18-00005	UXO21_TL18	317.86	8/25/2011	287292.8	3838204.4	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Plce	None	construction
UXO21_TL18-00006	UXO21_TL18	174.94	8/25/2011	287290.9	3838208.2	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Plce	None	construction
UXO21_TL18-00007	UXO21_TL18	20.29	8/25/2011	287288.7	3838212.3	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Plce	None	construction
UXO21_TL18-00008	UXO21_TL18	3.05	8/15/2011	287285.2	3838219	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	1	Consolidation Point	None	
UXO21_TL18-00009	UXO21_TL18	49.71	8/15/2011	287284.6	3838220.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	24	5	Consolidation Point	None	Siltfence/post
UXO21_TL18-00010	UXO21_TL18	4.44	8/15/2011	287277.6	3838233.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	1	Consolidation Point	None	
UXO21_TL18-00011	UXO21_TL18	5.98	8/15/2011	287242.7	3838300.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	1	Consolidation Point	None	
UXO21_TL18-00012	UXO21_TL18	3.07	8/15/2011	287236.2	3838310.2	Cultural Debris	Scrap	N/A	N/A	N/A	3	6	1	Consolidation Point	None	
UXO21_TL18-00013	UXO21_TL18	10	8/15/2011	287235.4	3838312.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	18	1	Consolidation Point	None	
UXO21_TL18-00014	UXO21_TL18	7.28	8/15/2011	287235.2	3838312.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	2	Consolidation Point	None	
UXO21_TL18-00015	UXO21_TL18	65.77	8/15/2011	287213.7	3838356.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	1	Consolidation Point	None	
UXO21_TL18-00016	UXO21_TL18	15.4	8/15/2011	287213.2	3838357.8	Cultural Debris	Scrap	N/A	N/A	N/A	2	4.5	1	Consolidation Point	None	
UXO21_TL18-00017	UXO21_TL18	72.4	8/15/2011	287210.8	3838361.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	2	Consolidation Point	None	
UXO21_TL18-00018	UXO21_TL18	7.2	8/15/2011	287209.5	3838364.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	8	1	Consolidation Point	None	
UXO21_TL18-00019	UXO21_TL18	20.11	8/25/2011	287208.7	3838365.6	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.02	Scrap Bin	None	
UXO21_TL18-00020	UXO21_TL18	3.67	8/15/2011	287207.5	3838367.6	Cultural Debris	Scrap	N/A	N/A	N/A	1	8	1	Consolidation Point	None	
UXO21_TL18-00021	UXO21_TL18	501.17	8/15/2011	287206.4	3838369.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	15	Consolidation Point	None	
UXO21_TL18-00022	UXO21_TL18	3.4	8/15/2011	287203.2	3838374.9	Cultural Debris	Scrap	N/A	N/A	N/A	4	7	10	Consolidation Point	None	
UXO21_TL18-00023	UXO21_TL18	103.22	8/15/2011	287202.4	3838377	Cultural Debris	Scrap	N/A	N/A	N/A	4	14	5	Consolidation Point	None	
UXO21_TL18-00024	UXO21_TL18	31.63	8/15/2011	287201.2	3838379.7	Cultural Debris	Scrap	N/A	N/A	N/A	5	8	2	Consolidation Point	None	
UXO21_TL18-00025	UXO21_TL18	7.19	8/15/2011	287198.8	3838385.3	Cultural Debris	Scrap	N/A	N/A	N/A	1	12	1	Consolidation Point	None	
UXO21_TL20-00001	UXO21_TL20	5.34	8/18/2011	287263.7	3838212.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.5	Consolidation Point	None	
UXO21_TL20-00002	UXO21_TL20	32.22	8/16/2011	287262.9	3838215.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.1	Consolidation Point	None	
UXO21_TL20-00003	UXO21_TL20	889.69	8/16/2011	287262.2	3838217.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	2	Consolidation Point	None	
UXO21_TL20-00004	UXO21_TL20	8.46	8/16/2011	287257.8	3838225.7	Cultural Debris	Scrap	N/A	N/A	N/A	7	4	5	Consolidation Point	None	
UXO21_TL20-00005	UXO21_TL20	19.48	8/16/2011	287255.6	3838228.3	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	1	Consolidation Point	None	
UXO21_TL20-00006	UXO21_TL20	4.29	8/16/2011	287254.9	3838229.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	5	0.5	Consolidation Point	None	
UXO21_TL20-00007	UXO21_TL20	35.41	8/16/2011	287253.7	3838231	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	1.5	Consolidation Point	None	
UXO21_TL20-00008	UXO21_TL20	53.52	8/16/2011	287253.2	3838231.6	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	3	Consolidation Point	None	
UXO21_TL20-00009	UXO21_TL20	180.31	8/16/2011	287252.1	3838234.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	1.5	Consolidation Point	None	
UXO21_TL2-00001	UXO21_TL2	41.8	8/25/2011	287462	3838259.5	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL20-00010	UXO21_TL20	3.03	8/16/2011	287248.2	3838243.1	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL20-00011	UXO21_TL20	10.74	8/16/2011	287246.4	3838246.3	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	1	Consolidation Point	None	
UXO21_TL20-00012	UXO21_TL20	31.85	8/16/2011	287245.6	3838247.9	MPPEH	Small Arms	Expended Cartridge Cases (Various Calibers)	Empty	N/A	4	4	1	Consolidation Point	Demil	
UXO21_TL20-00013	UXO21_TL20	9.98	8/18/2011	287242.5	3838254.6	Cultural Debris	Scrap	N/A	N/A	N/A	1	8	60	Scrap Bin	None	Pallet
UXO21_TL20-00014	UXO21_TL20	58.53	8/18/2011	287235.4	3838270.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	10	Consolidation Point	None	

TABLE C-1
MEC Intrusive Investigation Results
Site UXO-21
MCB CamLej, North Carolina

Anomaly Identification	Grid	Amplitude (millivolts)	Dig Date	Easting (UTM)	Northing (UTM)	Item Group	Item Class	Category	Filler	Fuze	Quantity	Depth (inch)	Weight (pound)	Action Taken	Demolition Required?	Item Comment
UXO21_TL20-00015	UXO21_TL20	5.42	8/18/2011	287216.1	3838296.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	1	Consolidation Point	None	
UXO21_TL20-00016	UXO21_TL20	85.21	8/18/2011	287215.6	3838297.9	Cultural Debris	Scrap	N/A	N/A	N/A	3	4	3	Scrap Bin	None	
UXO21_TL20-00017	UXO21_TL20	8.04	8/18/2011	287215.4	3838299	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.5	Consolidation Point	None	
UXO21_TL20-00018	UXO21_TL20	5.44	8/18/2011	287208.9	3838319	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.11	Consolidation Point	None	
UXO21_TL20-00019	UXO21_TL20	4.66	8/18/2011	287208.4	3838319.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.1	Consolidation Point	None	
UXO21_TL2-00002	UXO21_TL2	33.94	8/25/2011	287458.9	3838265.5	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL20-00020	UXO21_TL20	12.4	8/18/2011	287207.4	3838321.3	Cultural Debris	Scrap	N/A	N/A	N/A	2	7	1	Consolidation Point	None	
UXO21_TL20-00021	UXO21_TL20	4.26	8/18/2011	287200.5	3838334.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.5	Consolidation Point	None	
UXO21_TL20-00022	UXO21_TL20	3.07	8/18/2011	287200	3838335.2	Cultural Debris	Scrap	N/A	N/A	N/A	2	3	1	Consolidation Point	None	
UXO21_TL20-00023	UXO21_TL20	3.86	8/18/2011	287197.7	3838338.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.1	Consolidation Point	None	
UXO21_TL20-00024	UXO21_TL20	4.58	8/18/2011	287196.9	3838339.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.5	Consolidation Point	None	
UXO21_TL2-00003	UXO21_TL2	42.87	8/25/2011	287458.6	3838266.2	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL2-00004	UXO21_TL2	325.1	8/25/2011	287457.4	3838268.5	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL2-00005	UXO21_TL2	29.23	8/20/2011	287451	3838280.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Manhole utility
UXO21_TL2-00006	UXO21_TL2	77.52	8/22/2011	287428.6	3838322.9	Cultural Debris	Scrap	N/A	N/A	N/A	2	5	0.25	Scrap Bin	None	
UXO21_TL2-00007	UXO21_TL2	4.95	8/22/2011	287425	3838330.4	Cultural Debris	Scrap	N/A	N/A	N/A	3	0	0.75	Scrap Bin	None	
UXO21_TL2-00008	UXO21_TL2	6.36	8/22/2011	287422.7	3838335	Cultural Debris	Scrap	N/A	N/A	N/A	1	8	5	Scrap Bin	None	Metal anchor
UXO21_TL2-00009	UXO21_TL2	50.5	8/22/2011	287420.9	3838338.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	1	Scrap Bin	None	
UXO21_TL2-00010	UXO21_TL2	3.27	8/22/2011	287420.3	3838339.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	0	0.01	Scrap Bin	None	
UXO21_TL2-00011	UXO21_TL2	8	8/22/2011	287418.4	3838343.5	MPPEH	Grenade	MKII, Hand, Practice, Standard	Empty	Unknown	1	9	1	Consolidation Point	Demil	
UXO21_TL2-00012	UXO21_TL2	8.98	8/22/2011	287416.5	3838347.1	Cultural Debris	Scrap	N/A	N/A	N/A	2	24	2	Scrap Bin	None	Communication wire/metal scrap
UXO21_TL2-00013	UXO21_TL2	4.09	8/22/2011	287415.2	3838349.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.5	Scrap Bin	None	Steel banding
UXO21_TL2-00014	UXO21_TL2	3.21	8/22/2011	287414.5	3838350.9	Cultural Debris	Scrap	N/A	N/A	N/A	2	6	1	Scrap Bin	None	
UXO21_TL2-00015	UXO21_TL2	3.65	8/22/2011	287413.3	3838353.3	Shared	Shared Target	Shared	N/A	N/A	0	0	0	Left in Place	None	Shared with TLI2-016
UXO21_TL2-00016	UXO21_TL2	9.56	8/22/2011	287412.9	3838354.2	Cultural Debris	Scrap	N/A	N/A	N/A	4	4	0.5	Scrap Bin	None	Shared with tI2-00015
UXO21_TL2-00017	UXO21_TL2	8.74	8/22/2011	287411.4	3838357	MPPEH	Grenade	M20A1, Grenade, Rifle, Star, Cluster, Green	Empty	Unfuzed	1	8	1	Consolidation Point	Demil	Empty rifle grenade illumination
UXO21_TL2-00018	UXO21_TL2	5.46	8/22/2011	287406.5	3838366.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	2	Scrap Bin	None	Metal banding
UXO21_TL2-00019	UXO21_TL2	9.61	8/22/2011	287400.5	3838375.9	Facility Resource	Road	N/A	N/A	N/A	1	0	50	Left in Place	None	Monitoring well head
UXO21_TL2-00020	UXO21_TL2	5.48	8/22/2011	287399	3838377.9	Cultural Debris	Scrap	N/A	N/A	N/A	2	3	0.15	Scrap Bin	None	
UXO21_TL2-00021	UXO21_TL2	8.79	8/22/2011	287397	3838382.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	10	Scrap Bin	None	Brake pad
UXO21_TL2-00022	UXO21_TL2	66.03	8/24/2011	287395.1	3838388.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	1	Scrap Bin	None	
UXO21_TL2-00023	UXO21_TL2	3.18	8/24/2011	287394	3838390.6	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.1	Scrap Bin	None	
UXO21_TL2-00024	UXO21_TL2	31.68	8/24/2011	287393	3838392.5	MPPEH	Rocket	3.5-Inch Rocket, Motor Only	Unknown	Unknown	1	4	5	Consolidation Point	Demo	Rocket Motor, No Warhead
UXO21_TL2-00025	UXO21_TL2	3.26	8/24/2011	287390.5	3838397.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	2	Scrap Bin	None	
UXO21_TL2-00026	UXO21_TL2	5.31	8/24/2011	287389.6	3838399.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.05	Scrap Bin	None	
UXO21_TL2-00027	UXO21_TL2	4.81	8/24/2011	287386.1	3838405.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	1	Scrap Bin	None	
UXO21_TL2-00028	UXO21_TL2	6.05	8/24/2011	287384.7	3838408.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	
UXO21_TL2-00029	UXO21_TL2	8.04	8/24/2011	287382.6	3838412.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	1	Scrap Bin	None	
UXO21_TL2-00030	UXO21_TL2	7.42	8/24/2011	287381.4	3838414.8	TBD	TBD	Greater than 2 ft	N/A	N/A	0	0	0	Left in Place	None	Below 24inches Shared with tI2-00031
UXO21_TL2-00031	UXO21_TL2	4	8/24/2011	287380.9	3838415.7	Shared	Shared Target	Shared	N/A	N/A	0	0	0	Left in Place	None	Shared with TL2-030
UXO21_TL2-00032	UXO21_TL2	3.15	8/24/2011	287377.3	3838422.5	Cultural Debris	Scrap	N/A	N/A	N/A	3	6	0.5	Scrap Bin	None	Nails
UXO21_TL2-00033	UXO21_TL2	3.01	8/24/2011	287376.3	3838424.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	0.1	Scrap Bin	None	
UXO21_TL2-00034	UXO21_TL2	9.89	8/24/2011	287374.2	3838428.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	3	Scrap Bin	None	
UXO21_TL2-00035	UXO21_TL2	3.04	8/24/2011	287373.2	3838430.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.02	Scrap Bin	None	
UXO21_TL2-00036	UXO21_TL2	3.5	8/24/2011	287372.8	3838431	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	
UXO21_TL2-00037	UXO21_TL2	5.81	8/24/2011	287370.9	3838434.6	Shared	Shared Target	Shared	N/A	N/A	0	0	0	Scrap Bin	None	Shared with TL2-038
UXO21_TL2-00038	UXO21_TL2	18.58	8/24/2011	287370.6	3838435.3	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	1	Scrap Bin	None	
UXO21_TL2-00039	UXO21_TL2	4.39	8/24/2011	287368.9	3838438.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.05	Scrap Bin	None	
UXO21_TL2-00040	UXO21_TL2	11.4	8/24/2011	287366.7	3838442.8	Cultural Debris	Scrap	N/A	N/A	N/A	4	8	2	Scrap Bin	None	
UXO21_TL2-00041	UXO21_TL2	4.79	8/24/2011	287365.8	3838444.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	0.02	Scrap Bin	None	
UXO21_TL2-00042	UXO21_TL2	12.12	8/24/2011	287365	3838446.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	
UXO21_TL2-00043	UXO21_TL2	9.39	8/24/2011	287364.6	3838446.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.05	Scrap Bin	None	
UXO21_TL2-00044	UXO21_TL2	8.9	8/24/2011	287364	3838448.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	1	Scrap Bin	None	
UXO21_TL2-00045	UXO21_TL2	17.05	8/24/2011	287361.3	3838453.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	4	Scrap Bin	None	
UXO21_TL2-00046	UXO21_TL2	6.42	8/24/2011	287360.4	3838455.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	1	Scrap Bin	None	
UXO21_TL2-00047	UXO21_TL2	26.27	8/24/2011	287360	3838456.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	1	Scrap Bin	None	
UXO21_TL2-00048	UXO21_TL2	4.69	8/24/2011	287357.5	3838461	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.04	Scrap Bin	None	
UXO21_TL2-00049	UXO21_TL2	33.44	8/24/2011	287356.6	3838462.8	Cultural Debris	Scrap	N/A	N/A	N/A	2	2	2	Scrap Bin	None	
UXO21_TL2-00050	UXO21_TL2	5.32	8/24/2011	287355.5	3838464.7	Cultural Debris	Scrap	N/A	N/A	N/A	5	2	0.01	Scrap Bin	None	
UXO21_TL2-00051	UXO21_TL2	5.46	8/24/2011	287353.5	3838468.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.02	Scrap Bin	None	
UXO21_TL2-00052	UXO21_TL2	5.74	8/24/2011	287353.1	3838469.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	0	0.01	Scrap Bin	None	
UXO21_TL2-00053	UXO21_TL2	4.72	8/24/2011	287351.3	3838473.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.02	Scrap Bin	None	
UXO21_TL2-00054	UXO21_TL2	11.07	8/24/2011	287349.6	3838476.2	Shared	Shared Target	Shared	N/A	N/A	1	8	1	Scrap Bin	None	Shared with TL2-055
UXO21_TL2-00055	UXO21_TL2	12.01	8/24/2011	287349.2	3838476.8	Shared	Shared Target	Shared	N/A	N/A	1	4	0.02	Scrap Bin	None	Shared with TL2-054
UXO21_TL2-00056	UXO21_TL2	6.81	8/24/2011	287348.4	3838478.3	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.05	Scrap Bin	None	
UXO21_TL21-00001	UXO21_TL21	69.89	8/17/2011	287250.7	3838214.4	MPPEH	Grenade	M19 Illumination Rifle Grenade	Empty	Unfuzed	1	2	1	Consolidation Point	Demil	
UXO21_TL21-00002	UXO21_TL21	4.07	8/17/2011	287237.6	3838239.4	No Contact	No Contact	N/A	N/A	N/A	0	0		Left in Place	None	
UXO21_TL21-00003	UXO21_TL21	3.18	8/17/2011	287224.7	3838259	Cultural Debris	Scrap	N/A	N/A	N/A	1	0.5	4	Scrap Bin	None	
UXO21_TL21-00004	UXO21_TL21	6.09	8/25/2011	287219.5	3838275.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	0.5	4	Scrap Bin	None	

TABLE C-1
MEC Intrusive Investigation Results
Site UXO-21
MCB CamLej, North Carolina

Anomaly Identification	Grid	Amplitude (millivolts)	Dig Date	Easting (UTM)	Northing (UTM)	Item Group	Item Class	Category	Filler	Fuze	Quantity	Depth (inch)	Weight (pound)	Action Taken	Demolition Required?	Item Comment
UXO21_TL21-00005	UXO21_TL21	5.06	8/17/2011	287218	3838278.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	0.25	Scrap Bin	None	
UXO21_TL21-00006	UXO21_TL21	3.51	8/17/2011	287217.6	3838278.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	0.25	Scrap Bin	None	
UXO21_TL21-00007	UXO21_TL21	82.43	8/17/2011	287213.1	3838286.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	45	Scrap Bin	None	
UXO21_TL21-00008	UXO21_TL21	3.24	8/17/2011	287207.4	3838294.1	MPPEH	Small Arms	Expended Cartridge Cases (Various Calibers)	Empty	N/A	12	8	0.5	Consolidation Point	Demil	
UXO21_TL21-00009	UXO21_TL21	5.53	8/22/2011	287205.3	3838298.7	MPPEH	Small Arms	Expended Cartridge Cases (Various Calibers)	Empty	N/A	5	12	0.5	Consolidation Point	Demil	
UXO21_TL21-00010	UXO21_TL21	4492.39	8/17/2011	287197.1	3838317.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	0	500	Left in Place	None	
UXO21_TL21-00011	UXO21_TL21	15.51	8/22/2011	287195.3	3838323.6	Cultural Debris	Scrap	N/A	N/A	N/A	1	18	2	Scrap Bin	None	
UXO21_TL21-00012	UXO21_TL21	3.35	8/22/2011	287195	3838325.1	MPPEH	Grenade	Hand, Smoke AN-M8	Empty	N/A	1	8	0.75	Consolidation Point	Demil	
UXO21_TL21-00013	UXO21_TL21	3.56	8/22/2011	287187.9	3838335.1	MPPEH	Grenade	M19 Illumination Rifle Grenade	Empty	Unfuzed	1	6	1	Consolidation Point	Demil	
UXO21_TL22-00001	UXO21_TL22	4.38	8/22/2011	287233.4	3838224	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Area had been graded
UXO21_TL22-00002	UXO21_TL22	3.82	8/22/2011	287221.7	3838245.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	0	10	Scrap Bin	None	
UXO21_TL22-00003	UXO21_TL22	3.4	8/22/2011	287194.6	3838298.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	5	0.25	Scrap Bin	None	
UXO21_TL22-00004	UXO21_TL22	3.34	8/25/2011	287193.2	3838300.9	MPPEH	Small Arms	Expended Cartridge Cases (Various Calibers)	Illumination	N/A	1	4	0.1	Consolidation Point	Demil	Empty M-14 cartridge case
UXO21_TL22-00005	UXO21_TL22	4.45	8/22/2011	287192.8	3838301.8	Cultural Debris	Scrap	N/A	N/A	N/A	10	5	0.5	Scrap Bin	None	
UXO21_TL22-00006	UXO21_TL22	3.69	8/22/2011	287192.1	3838303.1	Cultural Debris	Scrap	N/A	N/A	N/A	2	4	0.5	Scrap Bin	None	
UXO21_TL22-00007	UXO21_TL22	4.01	8/18/2011	287189.6	3838307.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.1	Consolidation Point	None	
UXO21_TL23-00001	UXO21_TL23	611.39	8/20/2011	287465.3	3838267.4	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00002	UXO21_TL23	207.17	8/20/2011	287464.6	3838268.9	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00003	UXO21_TL23	9.25	8/20/2011	287461.8	3838274.5	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00004	UXO21_TL23	5.27	8/20/2011	287461.6	3838275.1	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00005	UXO21_TL23	4.29	8/20/2011	287459.9	3838278.4	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00006	UXO21_TL23	6.79	8/20/2011	287458.3	3838281.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00007	UXO21_TL23	6.59	8/20/2011	287457.8	3838282.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00008	UXO21_TL23	6.15	8/20/2011	287457.4	3838283.4	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00009	UXO21_TL23	8.65	8/20/2011	287457	3838284.3	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00010	UXO21_TL23	10.8	8/20/2011	287456.8	3838284.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00011	UXO21_TL23	9.93	8/20/2011	287456.4	3838285.5	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00012	UXO21_TL23	5.32	8/20/2011	287456.2	3838286	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00013	UXO21_TL23	3.47	8/20/2011	287455.6	3838287.2	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00014	UXO21_TL23	3.15	8/20/2011	287454.8	3838288.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00015	UXO21_TL23	3.07	8/20/2011	287452.7	3838293	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00016	UXO21_TL23	7.92	8/20/2011	287452.4	3838293.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00017	UXO21_TL23	14.56	8/20/2011	287452.1	3838294.4	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00018	UXO21_TL23	6.56	8/20/2011	287451.5	3838295.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00019	UXO21_TL23	7.74	8/20/2011	287450.1	3838298.2	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00020	UXO21_TL23	7.01	8/20/2011	287449.8	3838298.9	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00021	UXO21_TL23	3.54	8/20/2011	287449.3	3838299.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00022	UXO21_TL23	3.93	8/20/2011	287448.7	3838301.1	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00023	UXO21_TL23	6.02	8/20/2011	287448.3	3838301.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00024	UXO21_TL23	6.39	8/20/2011	287448	3838302.4	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00025	UXO21_TL23	3.64	8/20/2011	287447.7	3838303	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00026	UXO21_TL23	3.59	8/20/2011	287446.8	3838304.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00027	UXO21_TL23	3.09	8/20/2011	287446.5	3838305.4	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00028	UXO21_TL23	3.87	8/20/2011	287444.7	3838308.9	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00029	UXO21_TL23	6.63	8/20/2011	287444.3	3838309.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00030	UXO21_TL23	5.17	8/20/2011	287444	3838310.4	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00031	UXO21_TL23	7	8/20/2011	287443.7	3838310.9	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00032	UXO21_TL23	25.74	8/20/2011	287442.4	3838313.5	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00033	UXO21_TL23	441.96	8/20/2011	287440.7	3838316.9	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00034	UXO21_TL23	410.63	8/20/2011	287438.2	3838321.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00035	UXO21_TL23	264.71	8/20/2011	287436.1	3838325.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00036	UXO21_TL23	123.17	8/20/2011	287434.5	3838328.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00037	UXO21_TL23	14.47	8/20/2011	287432.9	3838331.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00038	UXO21_TL23	11.2	8/20/2011	287432.3	3838333	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00039	UXO21_TL23	5.83	8/20/2011	287431.1	3838335.1	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00040	UXO21_TL23	4.4	8/20/2011	287430.8	3838335.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00041	UXO21_TL23	4.04	8/20/2011	287430.2	3838336.9	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00042	UXO21_TL23	3.23	8/20/2011	287429.7	3838337.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00043	UXO21_TL23	8.51	8/20/2011	287428.9	3838339.4	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00044	UXO21_TL23	5.44	8/20/2011	287427.6	3838341.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00045	UXO21_TL23	9.56	8/20/2011	287427.1	3838342.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00046	UXO21_TL23	9.51	8/20/2011	287426.9	3838343.1	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00047	UXO21_TL23	4.16	8/20/2011	287425.6	3838345.4	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00048	UXO21_TL23	5.57	8/20/2011	287425.2	3838346.1	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00049	UXO21_TL23	3.69	8/20/2011	287424.5	3838347.2	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00050	UXO21_TL23	3.42	8/20/2011	287423	3838350	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00051	UXO21_TL23	3.26	8/20/2011	287422.4	3838351.2	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00052	UXO21_TL23	11.55	8/20/2011	287421.7	3838352.4	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	

TABLE C-1
MEC Intrusive Investigation Results
Site UXO-21
MCB CamLej, North Carolina

Anomaly Identification	Grid	Amplitude (millivolts)	Dig Date	Easting (UTM)	Northing (UTM)	Item Group	Item Class	Category	Filler	Fuze	Quantity	Depth (inch)	Weight (pound)	Action Taken	Demolition Required?	Item Comment
UXO21_TL23-00053	UXO21_TL23	12.33	8/20/2011	287421.3	3838353	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00054	UXO21_TL23	4.17	8/20/2011	287421	3838353.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00055	UXO21_TL23	14.36	8/20/2011	287419.9	3838355.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00056	UXO21_TL23	6.05	8/20/2011	287419.1	3838357.1	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00057	UXO21_TL23	4.08	8/20/2011	287418.9	3838357.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00058	UXO21_TL23	12.54	8/20/2011	287417.3	3838360.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00059	UXO21_TL23	7.04	8/20/2011	287417	3838361.3	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00060	UXO21_TL23	8.07	8/20/2011	287416.7	3838361.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00061	UXO21_TL23	5.42	8/20/2011	287416.1	3838363	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00062	UXO21_TL23	21.63	8/20/2011	287413.7	3838367.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00063	UXO21_TL23	3.03	8/20/2011	287413.2	3838368.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00064	UXO21_TL23	7.19	8/20/2011	287412.8	3838369.4	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00065	UXO21_TL23	7.69	8/20/2011	287411.6	3838371.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00066	UXO21_TL23	4.24	8/20/2011	287410.5	3838373.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00067	UXO21_TL23	6.11	8/20/2011	287410	3838374.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00068	UXO21_TL23	546.37	8/20/2011	287408.4	3838377.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00069	UXO21_TL23	3362.98	8/20/2011	287407	3838380.4	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00070	UXO21_TL23	4.65	8/20/2011	287405.2	3838383.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00071	UXO21_TL23	3.48	8/20/2011	287404.9	3838384.2	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00072	UXO21_TL23	9.93	8/20/2011	287403.8	3838386.2	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00073	UXO21_TL23	3.99	8/20/2011	287403.2	3838387.3	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00074	UXO21_TL23	3.42	8/20/2011	287402.2	3838389.1	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00075	UXO21_TL23	5.72	8/20/2011	287401.5	3838390.5	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00076	UXO21_TL23	3.15	8/20/2011	287401.1	3838391.1	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00077	UXO21_TL23	32.42	8/20/2011	287399.9	3838393.4	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00078	UXO21_TL23	3.85	8/20/2011	287399.3	3838394.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00079	UXO21_TL23	5.14	8/20/2011	287398.9	3838395.4	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00080	UXO21_TL23	5.17	8/20/2011	287397.7	3838397.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00081	UXO21_TL23	6.84	8/20/2011	287397.3	3838398.3	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00082	UXO21_TL23	9.11	8/20/2011	287395.7	3838401.3	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00083	UXO21_TL23	4.25	8/20/2011	287395.5	3838401.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00084	UXO21_TL23	3.56	8/20/2011	287395.2	3838402.3	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00085	UXO21_TL23	1044.64	8/20/2011	287393.4	3838405.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00086	UXO21_TL23	37.55	8/20/2011	287392.4	3838407.5	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00087	UXO21_TL23	28.65	8/20/2011	287392.1	3838408	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00088	UXO21_TL23	4.37	8/20/2011	287391.6	3838408.9	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00089	UXO21_TL23	3.63	8/20/2011	287390.1	3838411.9	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00090	UXO21_TL23	6.68	8/20/2011	287389.5	3838413.1	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00091	UXO21_TL23	38.45	8/20/2011	287388.7	3838414.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00092	UXO21_TL23	16.92	8/20/2011	287387.8	3838416.2	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00093	UXO21_TL23	8.02	8/20/2011	287387.3	3838417.2	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00094	UXO21_TL23	5.34	8/20/2011	287386.9	3838417.9	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00095	UXO21_TL23	3.71	8/20/2011	287386.5	3838418.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00096	UXO21_TL23	3.44	8/20/2011	287385.9	3838420	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00097	UXO21_TL23	10.12	8/20/2011	287385	3838421.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00098	UXO21_TL23	3.22	8/20/2011	287384.5	3838422.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00099	UXO21_TL23	3.32	8/20/2011	287384.1	3838423.3	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00100	UXO21_TL23	3.57	8/20/2011	287383.5	3838424.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00101	UXO21_TL23	5.33	8/20/2011	287382.5	3838426.5	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00102	UXO21_TL23	4.77	8/20/2011	287382.3	3838426.9	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00103	UXO21_TL23	5	8/20/2011	287381.9	3838427.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00104	UXO21_TL23	3.6	8/20/2011	287380.4	3838430.4	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00105	UXO21_TL23	5.16	8/20/2011	287379.9	3838431.4	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00106	UXO21_TL23	5.08	8/20/2011	287379.5	3838432.1	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00107	UXO21_TL23	3.25	8/20/2011	287378.6	3838433.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00108	UXO21_TL23	3.73	8/20/2011	287376.9	3838437	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00109	UXO21_TL23	4.72	8/20/2011	287376.5	3838437.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00110	UXO21_TL23	3.05	8/20/2011	287376.2	3838438.3	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00111	UXO21_TL23	3.53	8/20/2011	287375.9	3838438.9	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00112	UXO21_TL23	3.04	8/20/2011	287375.1	3838440.5	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00113	UXO21_TL23	3.44	8/20/2011	287374.8	3838441	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00114	UXO21_TL23	3.27	8/20/2011	287373.4	3838443.7	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00115	UXO21_TL23	3.76	8/20/2011	287373.1	3838444.2	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00116	UXO21_TL23	5.38	8/20/2011	287372.7	3838445	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00117	UXO21_TL23	3.3	8/20/2011	287372.1	3838446.3	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00118	UXO21_TL23	5.81	8/20/2011	287370.8	3838448.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00119	UXO21_TL23	50.8	8/20/2011	287367.9	3838454.7	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00120	UXO21_TL23	3.83	8/20/2011	287367.1	3838456.2	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00121	UXO21_TL23	3.48	8/20/2011	287366.8	3838456.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00122	UXO21_TL23	5.28	8/20/2011	287366.2	3838458.1	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	

TABLE C-1
MEC Intrusive Investigation Results
Site UXO-21
MCB CamLej, North Carolina

Anomaly Identification	Grid	Amplitude (millivolts)	Dig Date	Easting (UTM)	Northing (UTM)	Item Group	Item Class	Category	Filler	Fuze	Quantity	Depth (inch)	Weight (pound)	Action Taken	Demolition Required?	Item Comment
UXO21_TL23-00123	UXO21_TL23	3.7	8/20/2011	287365.7	3838459	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00124	UXO21_TL23	3.96	8/20/2011	287365.4	3838459.6	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00125	UXO21_TL23	6.24	8/20/2011	287365	3838460.4	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00126	UXO21_TL23	4.72	8/25/2011	287364.4	3838461.6	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	0.5	Scrap Bin	None	
UXO21_TL23-00127	UXO21_TL23	23.51	8/25/2011	287363.8	3838462.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	0.1	Scrap Bin	None	
UXO21_TL23-00128	UXO21_TL23	394.04	8/25/2011	287362.8	3838464.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	5	Scrap Bin	None	
UXO21_TL23-00129	UXO21_TL23	9.3	8/25/2011	287358.2	3838473.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	10	Scrap Bin	None	
UXO21_TL23-00130	UXO21_TL23	7.99	8/25/2011	287357.1	3838476	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	1	Scrap Bin	None	
UXO21_TL23-00131	UXO21_TL23	5.39	8/25/2011	287355.5	3838479.4	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL23-00132	UXO21_TL23	8.23	8/25/2011	287355.2	3838479.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	0.5	Scrap Bin	None	
UXO21_TL24-00001	UXO21_TL24	420.32	8/17/2011	287288.7	3838200.3	Facility Resource	Utility	N/A	N/A	N/A	0	24	0	Left in Place	None	
UXO21_TL24-00002	UXO21_TL24	28.47	8/25/2011	287285	3838205	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL24-00003	UXO21_TL24	32.44	8/25/2011	287279.5	3838212.2	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Pavement
UXO21_TL24-00004	UXO21_TL24	9.98	8/17/2011	287277.4	3838215	TBD	TBD	Greater than 2 ft	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL24-00005	UXO21_TL24	27.22	8/17/2011	287276.6	3838215.9	TBD	TBD	Greater than 2 ft	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL24-00006	UXO21_TL24	17.35	8/17/2011	287275.8	3838217	TBD	TBD	Greater than 2 ft	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL24-00007	UXO21_TL24	6.99	8/17/2011	287272.2	3838222.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	8	0.25	Consolidation Point	None	
UXO21_TL24-00008	UXO21_TL24	162.37	8/17/2011	287270	3838226.3	Cultural Debris	Scrap	N/A	N/A	N/A	1	18	15	Scrap Bin	None	
UXO21_TL24-00009	UXO21_TL24	23.76	8/17/2011	287268.2	3838229.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0	Left in Place	None	
UXO21_TL24-00010	UXO21_TL24	5.2	8/17/2011	287260	3838243.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0	Left in Place	None	
UXO21_TL24-00011	UXO21_TL24	9.37	8/17/2011	287259.4	3838245	Cultural Debris	Scrap	N/A	N/A	N/A	1	8	0.5	Scrap Bin	None	
UXO21_TL24-00012	UXO21_TL24	5	8/17/2011	287258.2	3838247.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	8	1	Scrap Bin	None	
UXO21_TL24-00013	UXO21_TL24	11.35	8/17/2011	287256.9	3838250	Shared	Shared Target	Shared	N/A	N/A	0	0	0	Left in Place	None	Shared with TL24-014
UXO21_TL24-00014	UXO21_TL24	8.71	8/17/2011	287256.6	3838250.6	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	1	Consolidation Point	None	Shared with tl24-00013
UXO21_TL24-00015	UXO21_TL24	5.64	8/17/2011	287255.4	3838252.7	Cultural Debris	Scrap	N/A	N/A	N/A	3	6	2	Consolidation Point	None	
UXO21_TL24-00016	UXO21_TL24	22.96	8/17/2011	287251	3838261.4	Cultural Debris	Scrap	N/A	N/A	N/A	2	24	26	Consolidation Point	None	
UXO21_TL24-00017	UXO21_TL24	5.02	8/16/2011	287248.6	3838266.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	1	Consolidation Point	None	
UXO21_TL24-00018	UXO21_TL24	12.39	8/16/2011	287247.3	3838268.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	10	3	Consolidation Point	None	
UXO21_TL24-00019	UXO21_TL24	3.68	8/16/2011	287246.8	3838269.6	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	35	Consolidation Point	None	
UXO21_TL24-00020	UXO21_TL24	4	8/16/2011	287246.2	3838270.7	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL24-00021	UXO21_TL24	8.72	8/16/2011	287245.6	3838272	Cultural Debris	Scrap	N/A	N/A	N/A	1	20	1	Consolidation Point	None	
UXO21_TL24-00022	UXO21_TL24	50.69	8/16/2011	287243.4	3838276.4	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL24-00023	UXO21_TL24	198.72	8/25/2011	287241.7	3838279.8	TBD	TBD	Greater than 2 ft	N/A	N/A	0	24	0	Left in Place	None	
UXO21_TL24-00024	UXO21_TL24	662.16	8/16/2011	287236	3838291.2	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL24-00025	UXO21_TL24	81.59	8/25/2011	287231.9	3838299.8	TBD	TBD	Greater than 2 ft	N/A	N/A	0	24	0	Left in Place	None	
UXO21_TL24-00026	UXO21_TL24	13.89	8/16/2011	287230.3	3838303.1	No Contact	No Contact	N/A	N/A	N/A	0	24	0	Left in Place	None	
UXO21_TL24-00027	UXO21_TL24	5.65	8/16/2011	287222.3	3838319.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	10	1	Consolidation Point	None	
UXO21_TL24-00028	UXO21_TL24	57.29	8/16/2011	287220.6	3838323.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	18	10	Consolidation Point	None	
UXO21_TL24-00029	UXO21_TL24	116.32	8/17/2011	287218.9	3838327.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	12	1	Consolidation Point	None	
UXO21_TL24-00030	UXO21_TL24	19.19	8/16/2011	287217.7	3838329.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	18	2	Consolidation Point	None	
UXO21_TL24-00031	UXO21_TL24	3.23	8/16/2011	287212.8	3838340.3	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.75	Consolidation Point	None	
UXO21_TL24-00032	UXO21_TL24	5.36	8/16/2011	287210.7	3838344.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.25	Consolidation Point	None	
UXO21_TL24-00033	UXO21_TL24	8.42	8/16/2011	287209.1	3838348.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.5	Consolidation Point	None	
UXO21_TL24-00034	UXO21_TL24	4.14	8/16/2011	287206.4	3838353.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.5	Consolidation Point	None	
UXO21_TL24-00035	UXO21_TL24	23.24	8/16/2011	287205.3	3838356.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.25	Consolidation Point	None	
UXO21_TL24-00036	UXO21_TL24	10.81	8/16/2011	287201.1	3838365.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.75	Consolidation Point	None	
UXO21_TL25-00001	UXO21_TL25	22.26	8/17/2011	287289.9	3838191.3	Facility Resource	Utility	N/A	N/A	N/A	0	24	0	Left in Place	None	Utility line
UXO21_TL25-00002	UXO21_TL25	17.88	8/17/2011	287289.5	3838191.7	Facility Resource	Utility	N/A	N/A	N/A	0	24	0	Left in Place	None	Utility line
UXO21_TL25-00003	UXO21_TL25	6.05	8/18/2011	287288.1	3838193.6	Facility Resource	Utility	N/A	N/A	N/A	0	24	0	Left in Place	None	Utility line
UXO21_TL25-00004	UXO21_TL25	4.49	8/25/2011	287281.3	3838202.8	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Pavement
UXO21_TL25-00005	UXO21_TL25	8.15	8/25/2011	287278.4	3838206.7	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Pavement
UXO21_TL25-00006	UXO21_TL25	15.36	8/18/2011	287268	3838221.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	10	1	Consolidation Point	None	
UXO21_TL25-00007	UXO21_TL25	5.79	8/18/2011	287262.7	3838229	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL25-00008	UXO21_TL25	15.97	8/18/2011	287260.6	3838232.5	Cultural Debris	Scrap	N/A	N/A	N/A	2	6	1	Consolidation Point	None	
UXO21_TL25-00009	UXO21_TL25	4.21	8/18/2011	287255.7	3838241.2	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL25-00010	UXO21_TL25	4.49	8/16/2011	287251.8	3838248.4	No Contact	No Contact	N/A	N/A	N/A	0	5	0	Left in Place	None	
UXO21_TL25-00011	UXO21_TL25	14.12	8/18/2011	287251.2	3838249.6	Cultural Debris	Scrap	N/A	N/A	N/A	4	4	1	Scrap Bin	None	
UXO21_TL25-00012	UXO21_TL25	4.27	8/18/2011	287250.1	3838251.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	0.25	Scrap Bin	None	
UXO21_TL25-00013	UXO21_TL25	9.39	8/18/2011	287248.9	3838254.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	1	Scrap Bin	None	
UXO21_TL25-00014	UXO21_TL25	4.58	8/18/2011	287248.1	3838256	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	0.5	Consolidation Point	None	Shared with TL25-00015
UXO21_TL25-00015	UXO21_TL25	3.44	8/18/2011	287247.8	3838256.6	Shared	Shared Target	Shared	N/A	N/A	0	0	0	Left in Place	None	Shared with TL25-014
UXO21_TL25-00016	UXO21_TL25	777.4	8/18/2011	287244.6	3838263.3	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	0	Left in Place	None	Concrete slab with rebar
UXO21_TL25-00017	UXO21_TL25	4.67	8/18/2011	287243.1	3838266.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	5	Scrap Bin	None	Metal pipe
UXO21_TL25-00018	UXO21_TL25	86.88	8/16/2011	287241.2	3838270.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	8	5	Consolidation Point	None	
UXO21_TL25-00019	UXO21_TL25	59.44	8/16/2011	287240.7	3838271.3	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	1	Consolidation Point	None	
UXO21_TL25-00020	UXO21_TL25	225.62	8/16/2011	287237.5	3838277.8	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL25-00021	UXO21_TL25	27.89	8/16/2011	287233.6	3838285.7	No Contact	No Contact	N/A	N/A	N/A	0	24	0	Left in Place	None	
UXO21_TL25-00022	UXO21_TL25	28.87	8/16/2011	287233	3838286.9	Cultural Debris	Scrap	N/A	N/A	N/A	3	15	6	Consolidation Point	None	
UXO21_TL25-00023	UXO21_TL25	3.57	8/16/2011	287231.8	3838289.1	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL25-00024	UXO21_TL25	5.68	8/16/2011	287230.5	3838291.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	1	Consolidation Point	None	

TABLE C-1
MEC Intrusive Investigation Results
Site UXO-21
MCB CamLej, North Carolina

Anomaly Identification	Grid	Amplitude (millivolts)	Dig Date	Easting (UTM)	Northing (UTM)	Item Group	Item Class	Category	Filler	Fuze	Quantity	Depth (inch)	Weight (pound)	Action Taken	Demolition Required?	Item Comment
UXO21_TL25-00025	UXO21_TL25	3.98	8/16/2011	287229	3838294.5	MPPEH	Small Arms	Expended Cartridge Cases (Various Calibers)	Empty	N/A	2	3	1	Consolidation Point	Demil	
UXO21_TL25-00026	UXO21_TL25	53.29	8/16/2011	287228.3	3838295.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	4	Consolidation Point	None	
UXO21_TL25-00027	UXO21_TL25	4.55	8/16/2011	287227.3	3838297.8	Cultural Debris	Scrap	N/A	N/A	N/A	10	8	5	Consolidation Point	None	
UXO21_TL25-00028	UXO21_TL25	228.48	8/16/2011	287224.2	3838304.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	24	30	Consolidation Point	None	
UXO21_TL25-00029	UXO21_TL25	4.3	8/16/2011	287220.3	3838312.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	1	Consolidation Point	None	
UXO21_TL25-00030	UXO21_TL25	11.15	8/16/2011	287218.8	3838315.1	MPPEH	Small Arms	Expended Cartridge Cases (Various Calibers)	Empty	N/A	1	4	1	Consolidation Point	Demil	
UXO21_TL25-00031	UXO21_TL25	11.05	8/16/2011	287214.6	3838323.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	1	Consolidation Point	None	
UXO21_TL25-00032	UXO21_TL25	11.12	8/16/2011	287211.3	3838330.6	Cultural Debris	Scrap	N/A	N/A	N/A	2	1	2	Consolidation Point	None	
UXO21_TL25-00033	UXO21_TL25	5.21	8/16/2011	287207.2	3838339.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	1	Consolidation Point	None	
UXO21_TL25-00034	UXO21_TL25	4.12	8/16/2011	287206.7	3838340.6	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	1	Consolidation Point	None	
UXO21_TL25-00035	UXO21_TL25	3.62	8/16/2011	287203.9	3838347.1	Cultural Debris	Scrap	N/A	N/A	N/A	2	6	1	Consolidation Point	None	
UXO21_TL25-00036	UXO21_TL25	3.46	8/16/2011	287194.5	3838368.6	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	1	Consolidation Point	None	
UXO21_TL25-00037	UXO21_TL25	3.74	8/16/2011	287194	3838369.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	8	2	Consolidation Point	None	
UXO21_TL25-00038	UXO21_TL25	162.51	8/16/2011	287192.9	3838372.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	2	Consolidation Point	None	
UXO21_TL26-00001	UXO21_TL26	4.1	8/18/2011	287294.7	3838188.4	Cultural Debris	Scrap	N/A	N/A	N/A	3	24	1.5	Scrap Bin	None	
UXO21_TL26-00002	UXO21_TL26	104.62	8/18/2011	287286.7	3838198.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	18	0	Left in Place	None	Utility line
UXO21_TL26-00003	UXO21_TL26	3.19	8/18/2011	287272.7	3838218.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	18	3	Scrap Bin	None	Steel bar
UXO21_TL26-00004	UXO21_TL26	6.37	8/18/2011	287270.4	3838221.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.25	Scrap Bin	None	Nail
UXO21_TL26-00005	UXO21_TL26	108.14	8/18/2011	287267.3	3838226.6	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	0	Left in Place	None	Concrete with rebar
UXO21_TL26-00006	UXO21_TL26	5.05	8/18/2011	287265.8	3838229	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL26-00007	UXO21_TL26	3.29	8/18/2011	287260.9	3838236.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	1	Scrap Bin	None	
UXO21_TL26-00008	UXO21_TL26	5.14	8/18/2011	287258.8	3838240.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	1	Scrap Bin	None	
UXO21_TL26-00009	UXO21_TL26	6.54	8/18/2011	287256.4	3838244.7	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Concrete with rebar within 12 inches
UXO21_TL26-00010	UXO21_TL26	6.93	8/18/2011	287255.7	3838245.8	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Concrete with rebar within 12 inches
UXO21_TL26-00011	UXO21_TL26	6.51	8/18/2011	287254	3838248.7	Cultural Debris	Scrap	N/A	N/A	N/A	2	6	1	Scrap Bin	None	
UXO21_TL26-00012	UXO21_TL26	5.12	8/18/2011	287253.7	3838249.4	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL26-00013	UXO21_TL26	3.3	8/18/2011	287252.6	3838251.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	10	0.25	Scrap Bin	None	Nail
UXO21_TL26-00014	UXO21_TL26	4.39	8/18/2011	287250.8	3838254.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	0.25	Scrap Bin	None	
UXO21_TL26-00015	UXO21_TL26	7.13	8/18/2011	287250.4	3838255.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	18	0.25	Scrap Bin	None	Metal
UXO21_TL26-00016	UXO21_TL26	26.72	8/18/2011	287248.2	3838260.5	TBD	TBD	Greater than 2 ft	N/A	N/A	0	24	0	Left in Place	None	Dug to depth
UXO21_TL26-00017	UXO21_TL26	51.74	8/18/2011	287247.5	3838262.1	TBD	TBD	Greater than 2 ft	N/A	N/A	0	24	0	Left in Place	None	
UXO21_TL26-00018	UXO21_TL26	36.09	8/18/2011	287246.4	3838264.3	Shared	Shared Target	Shared	N/A	N/A	0	6	0	Left in Place	None	Shared with TL25-016
UXO21_TL26-00019	UXO21_TL26	3.46	8/18/2011	287245.2	3838267	Cultural Debris	Scrap	N/A	N/A	N/A	1	20	6	Scrap Bin	None	
UXO21_TL26-00020	UXO21_TL26	23.48	8/18/2011	287244	3838269.5	MPPEH	Small Arms	Expended Cartridge Cases (Various Calibers)	Empty	N/A	1	12	25	Consolidation Point	Demil	Expended
UXO21_TL26-00021	UXO21_TL26	223.48	8/16/2011	287239.5	3838278.9	No Contact	No Contact	N/A	N/A	N/A	0	24	0	Left in Place	None	
UXO21_TL26-00022	UXO21_TL26	19.02	8/16/2011	287234.2	3838289.9	No Contact	No Contact	N/A	N/A	N/A	0	24	0	Left in Place	None	
UXO21_TL26-00023	UXO21_TL26	3.92	8/16/2011	287227.6	3838302.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	1	Consolidation Point	None	
UXO21_TL26-00024	UXO21_TL26	50.97	8/16/2011	287222.2	3838313.6	Cultural Debris	Scrap	N/A	N/A	N/A	1	20	5	Consolidation Point	None	
UXO21_TL26-00025	UXO21_TL26	8.99	8/16/2011	287218.2	3838321.8	MPPEH	Small Arms	Expended Cartridge Cases (Various Calibers)	Empty	N/A	1	8	1	Consolidation Point	Demil	
UXO21_TL26-00026	UXO21_TL26	8.53	8/16/2011	287213.8	3838331.1	MPPEH	Small Arms	Expended Cartridge Cases (Various Calibers)	Empty	N/A	1	8	1	Consolidation Point	Demil	
UXO21_TL26-00027	UXO21_TL26	3.23	8/16/2011	287209.3	3838340.9	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL27-00001	UXO21_TL27	9.2	8/18/2011	287353.8	3838183.6	Cultural Debris	Scrap	N/A	N/A	N/A	3	4	15	Scrap Bin	None	Can/wire/metal rod
UXO21_TL27-00002	UXO21_TL27	5.43	8/18/2011	287356.9	3838184.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	5	0.02	Scrap Bin	None	Coat hanger
UXO21_TL27-00003	UXO21_TL27	6.81	8/18/2011	287358.1	3838184.3	Cultural Debris	Scrap	N/A	N/A	N/A	4	3	0.25	Scrap Bin	None	Pieces of wire
UXO21_TL27-00004	UXO21_TL27	3.03	8/18/2011	287372.1	3838187.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	0.01	Scrap Bin	None	Wire
UXO21_TL27-00005	UXO21_TL27	16.88	8/18/2011	287375.8	3838188.3	Cultural Debris	Scrap	N/A	N/A	N/A	1	7	0.02	Scrap Bin	None	Shared with tl12-00001
UXO21_TL27-00006	UXO21_TL27	3.81	8/20/2011	287384.2	3838200.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	1	Scrap Bin	None	Copper band
UXO21_TL27-00007	UXO21_TL27	18.36	8/25/2011	287411.3	3838215.3	Shared	Shared Target	Shared	N/A	N/A	0	0	0	Left in Place	None	Shared with TL27-006
UXO21_TL28-00001	UXO21_TL28	3.3	8/20/2011	287278.4	3838197	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.11	Consolidation Point	None	
UXO21_TL28-00002	UXO21_TL28	3027.51	8/18/2011	287288.4	3838198.8	Facility Resource	Utility	N/A	N/A	N/A	0	24	0	Left in Place	None	Utility line
UXO21_TL28-00003	UXO21_TL28	3.37	8/20/2011	287291.3	3838200.6	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction site
UXO21_TL28-00004	UXO21_TL28	9.33	8/20/2011	287305.8	3838203.5	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction site
UXO21_TL28-00005	UXO21_TL28	3.14	8/20/2011	287307.9	3838204.5	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction site
UXO21_TL28-00006	UXO21_TL28	8.32	8/20/2011	287314.2	3838207.4	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction site
UXO21_TL28-00007	UXO21_TL28	4.2	8/20/2011	287319.2	3838216.9	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction site
UXO21_TL28-00008	UXO21_TL28	17.93	8/20/2011	287321.6	3838218.4	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction site
UXO21_TL28-00009	UXO21_TL28	3.01	8/20/2011	287323.1	3838219.6	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction site
UXO21_TL28-00010	UXO21_TL28	162.48	8/20/2011	287338.5	3838231.6	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Pavement
UXO21_TL28-00011	UXO21_TL28	4.59	8/20/2011	287354.9	3838245.2	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Pavement
UXO21_TL28-00012	UXO21_TL28	4.88	8/20/2011	287356.6	3838247.2	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Pavement
UXO21_TL28-00013	UXO21_TL28	3.29	8/20/2011	287363.7	3838252.3	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Pavement
UXO21_TL28-00014	UXO21_TL28	5.67	8/20/2011	287366.4	3838254	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Pavement
UXO21_TL28-00015	UXO21_TL28	5.21	8/20/2011	287375.6	3838254.9	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Pavement
UXO21_TL28-00016	UXO21_TL28	5.63	8/20/2011	287378	3838257.4	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Pavement
UXO21_TL28-00017	UXO21_TL28	3.44	8/20/2011	287398.2	3838273.6	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction site
UXO21_TL28-00018	UXO21_TL28	3.22	8/20/2011	287405	3838275.1	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction site

TABLE C-1
MEC Intrusive Investigation Results
Site UXO-21
MCB CamLej, North Carolina

Anomaly Identification	Grid	Amplitude (millivolts)	Dig Date	Easting (UTM)	Northing (UTM)	Item Group	Item Class	Category	Filler	Fuze	Quantity	Depth (inch)	Weight (pound)	Action Taken	Demolition Required?	Item Comment
UXO21_TL28-00019	UXO21_TL28	3.88	8/20/2011	287407.7	3838277.5	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction site
UXO21_TL28-00020	UXO21_TL28	3.67	8/20/2011	287410.9	3838280.4	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction site
UXO21_TL28-00021	UXO21_TL28	3.23	8/20/2011	287411.4	3838280.8	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction site
UXO21_TL28-00022	UXO21_TL28	3.17	8/20/2011	287422.6	3838288.2	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction site
UXO21_TL29-00001	UXO21_TL29	19.56	8/20/2011	287285.5	3838204.4	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Pavement
UXO21_TL29-00002	UXO21_TL29	4.13	8/20/2011	287286.9	3838205.9	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Pavement
UXO21_TL29-00003	UXO21_TL29	3.75	8/20/2011	287291.3	3838210.5	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Pavement
UXO21_TL29-00004	UXO21_TL29	14.86	8/20/2011	287293.6	3838213	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Pavement
UXO21_TL29-00005	UXO21_TL29	9.34	8/20/2011	287294.1	3838213.5	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Pavement
UXO21_TL29-00006	UXO21_TL29	3.55	8/20/2011	287299.7	3838218.5	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Pavement
UXO21_TL29-00007	UXO21_TL29	9.94	8/20/2011	287300.7	3838218.9	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Pavement
UXO21_TL30-00001	UXO21_TL30	43.63	8/18/2011	287280.8	3838214.7	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Silt fence with metal stakes
UXO21_TL30-00002	UXO21_TL30	27.8	8/20/2011	287288.5	3838217.2	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Constrction site area graded
UXO21_TL30-00003	UXO21_TL30	10.48	8/20/2011	287315.7	3838232.2	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction site area graded
UXO21_TL30-00004	UXO21_TL30	20.75	8/20/2011	287320.2	3838235.4	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction site
UXO21_TL3-00001	UXO21_TL3	3.38	8/22/2011	287456.9	3838245.6	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.02	Scrap Bin	None	
UXO21_TL3-00002	UXO21_TL3	4.5	8/22/2011	287455.8	3838248	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.02	Scrap Bin	None	
UXO21_TL3-00003	UXO21_TL3	5.48	8/22/2011	287455.5	3838248.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	0.01	Scrap Bin	None	
UXO21_TL3-00004	UXO21_TL3	4.45	8/22/2011	287454.9	3838250	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	0.01	Scrap Bin	None	
UXO21_TL3-00005	UXO21_TL3	13.14	8/22/2011	287454.4	3838251.1	Cultural Debris	Scrap	N/A	N/A	N/A	3	6	0.02	Scrap Bin	None	
UXO21_TL3-00006	UXO21_TL3	12.17	8/22/2011	287453.8	3838252.3	Cultural Debris	Scrap	N/A	N/A	N/A	2	4	0.01	Scrap Bin	None	
UXO21_TL3-00007	UXO21_TL3	6.59	8/22/2011	287453.1	3838253.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	
UXO21_TL3-00008	UXO21_TL3	3.84	8/22/2011	287452.6	3838255.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	
UXO21_TL3-00009	UXO21_TL3	3.01	8/22/2011	287451.2	3838258.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.01	Scrap Bin	None	
UXO21_TL3-00010	UXO21_TL3	3.66	8/22/2011	287449.4	3838261.3	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	
UXO21_TL3-00011	UXO21_TL3	5.22	8/22/2011	287447.4	3838263.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	Foil
UXO21_TL3-00012	UXO21_TL3	4.34	8/22/2011	287444.8	3838267.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	0.05	Scrap Bin	None	Scrap metal
UXO21_TL3-00013	UXO21_TL3	179.91	8/22/2011	287444.1	3838268.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.5	Scrap Bin	None	Wire Shared with tl3-00014
UXO21_TL3-00014	UXO21_TL3	190.49	8/22/2011	287443.8	3838269.6	Shared	Shared Target	Shared	N/A	N/A	0	0	0	Left in Place	None	Shared with TL3-013
UXO21_TL3-00015	UXO21_TL3	4.39	8/20/2011	287442.3	3838273	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL3-00016	UXO21_TL3	3.52	8/20/2011	287442	3838273.7	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Utility magnetic shadowing
UXO21_TL3-00017	UXO21_TL3	5.78	8/20/2011	287438.9	3838280.2	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Paved roadway
UXO21_TL3-00018	UXO21_TL3	3.2	8/20/2011	287438.4	3838281.2	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Paved roadway
UXO21_TL3-00019	UXO21_TL3	4.82	8/20/2011	287437.8	3838282.3	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Pavedroadway
UXO21_TL3-00020	UXO21_TL3	4.14	8/20/2011	287436.8	3838284.3	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Paved roadway
UXO21_TL3-00021	UXO21_TL3	4.5	8/20/2011	287435.8	3838286.2	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Paved roadway
UXO21_TL3-00022	UXO21_TL3	4.89	8/20/2011	287435.3	3838287.1	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Paved roadway
UXO21_TL3-00023	UXO21_TL3	4.41	8/20/2011	287434.9	3838288	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Paved roadway
UXO21_TL3-00024	UXO21_TL3	4.23	8/20/2011	287433.6	3838290.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	0.1	Scrap Bin	None	
UXO21_TL3-00025	UXO21_TL3	3.95	8/22/2011	287430.3	3838296.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	0.15	Scrap Bin	None	
UXO21_TL3-00026	UXO21_TL3	294.41	8/22/2011	287428.7	3838299.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	10	Scrap Bin	None	
UXO21_TL3-00027	UXO21_TL3	4.46	8/22/2011	287427.5	3838302.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.15	Scrap Bin	None	
UXO21_TL3-00028	UXO21_TL3	3.41	8/22/2011	287426.1	3838304.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	0.15	Scrap Bin	None	
UXO21_TL3-00029	UXO21_TL3	3.25	8/22/2011	287425.3	3838306.4	Cultural Debris	Scrap	N/A	N/A	N/A	2	3	0.1	Scrap Bin	None	
UXO21_TL3-00030	UXO21_TL3	4.14	8/22/2011	287425	3838307	Cultural Debris	Scrap	N/A	N/A	N/A	1	0	0.01	Scrap Bin	None	
UXO21_TL3-00031	UXO21_TL3	4.74	8/22/2011	287423.4	3838309.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.05	Scrap Bin	None	
UXO21_TL3-00032	UXO21_TL3	3	8/22/2011	287422.5	3838311.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	
UXO21_TL3-00033	UXO21_TL3	3.15	8/22/2011	287422.1	3838312.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.02	Scrap Bin	None	
UXO21_TL3-00034	UXO21_TL3	4.29	8/22/2011	287421.3	3838313.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	0.01	Scrap Bin	None	
UXO21_TL3-00035	UXO21_TL3	3.26	8/22/2011	287419.4	3838316.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	
UXO21_TL3-00036	UXO21_TL3	3.1	8/22/2011	287418.8	3838317.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	
UXO21_TL3-00037	UXO21_TL3	3.78	8/22/2011	287418.1	3838318.6	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.02	Scrap Bin	None	
UXO21_TL3-00038	UXO21_TL3	6.34	8/22/2011	287417.6	3838319.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.05	Scrap Bin	None	
UXO21_TL3-00039	UXO21_TL3	3.2	8/22/2011	287416.3	3838321.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	
UXO21_TL3-00040	UXO21_TL3	3.16	8/22/2011	287415.5	3838323	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.1	Scrap Bin	None	
UXO21_TL3-00041	UXO21_TL3	6.28	8/22/2011	287415	3838324.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.02	Scrap Bin	None	
UXO21_TL3-00042	UXO21_TL3	4.05	8/22/2011	287414.7	3838325	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.05	Scrap Bin	None	
UXO21_TL3-00043	UXO21_TL3	3.07	8/22/2011	287414.2	3838326.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.02	Scrap Bin	None	
UXO21_TL3-00044	UXO21_TL3	6.45	8/22/2011	287413.6	3838328	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.05	Scrap Bin	None	
UXO21_TL3-00045	UXO21_TL3	3.84	8/22/2011	287413	3838329.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	
UXO21_TL3-00046	UXO21_TL3	4.73	8/22/2011	287412.6	3838330.6	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	
UXO21_TL3-00047	UXO21_TL3	5.92	8/22/2011	287412.2	3838331.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	
UXO21_TL3-00048	UXO21_TL3	12.32	8/23/2011	287381.5	3838391.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.01	Scrap Bin	None	Foil
UXO21_TL3-00049	UXO21_TL3	3.09	8/23/2011	287380.9	3838392.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	1	Scrap Bin	None	Spike
UXO21_TL3-00050	UXO21_TL3	9.26	8/23/2011	287380.2	3838393.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.01	Scrap Bin	None	Foil wrap
UXO21_TL3-00051	UXO21_TL3	8.24	8/23/2011	287379.8	3838394.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.02	Scrap Bin	None	Tin can
UXO21_TL3-00052	UXO21_TL3	10	8/23/2011	287379.2	3838395.7	Cultural Debris	Scrap	N/A	N/A	N/A	2	2	0.02	Scrap Bin	None	Tin can
UXO21_TL3-00053	UXO21_TL3	7.33	8/23/2011	287378.9	3838396.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.02	Scrap Bin	None	Nail
UXO21_TL3-00054	UXO21_TL3	10.3	8/23/2011	287378.5	3838397.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.01	Scrap Bin	None	Wire
UXO21_TL3-00055	UXO21_TL3	7.06	8/23/2011	287378	3838397.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.01	Scrap Bin	None	Wire

TABLE C-1
MEC Intrusive Investigation Results
Site UXO-21
MCB CamLej, North Carolina

Anomaly Identification	Grid	Amplitude (millivolts)	Dig Date	Easting (UTM)	Northing (UTM)	Item Group	Item Class	Category	Filler	Fuze	Quantity	Depth (inch)	Weight (pound)	Action Taken	Demolition Required?	Item Comment
UXO21_TL3-00056	UXO21_TL3	23.88	8/23/2011	287377.5	3838399	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	1	Scrap Bin	None	Bolt
UXO21_TL3-00057	UXO21_TL3	6.82	8/23/2011	287377	3838399.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.02	Scrap Bin	None	
UXO21_TL3-00058	UXO21_TL3	8.31	8/23/2011	287376.5	3838400.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	0.02	Scrap Bin	None	Wire
UXO21_TL3-00059	UXO21_TL3	6.57	8/23/2011	287376.1	3838401.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	0.02	Scrap Bin	None	Foil
UXO21_TL3-00060	UXO21_TL3	5.19	8/23/2011	287375.8	3838402.2	Cultural Debris	Scrap	N/A	N/A	N/A	25	3	1	Scrap Bin	None	Nails Shared with tl3-00061
UXO21_TL3-00061	UXO21_TL3	3.43	8/23/2011	287375.5	3838402.7	Shared	Shared Target	Shared	N/A	N/A	0	0	0	Left in Place	None	Shared with TL3-060
UXO21_TL3-00062	UXO21_TL3	4.9	8/23/2011	287374.8	3838403.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.02	Scrap Bin	None	Can lid
UXO21_TL3-00063	UXO21_TL3	5.1	8/23/2011	287374.4	3838404.7	Cultural Debris	Scrap	N/A	N/A	N/A	11	1	0.02	Scrap Bin	None	
UXO21_TL3-00064	UXO21_TL3	4.43	8/23/2011	287374	3838405.6	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	
UXO21_TL3-00065	UXO21_TL3	3.72	8/23/2011	287373.1	3838407.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	11	0.01	Scrap Bin	None	
UXO21_TL3-00066	UXO21_TL3	3.17	8/23/2011	287372.6	3838408.2	Shared	Shared Target	Shared	N/A	N/A	0	0	0	Left in Place	None	Shared with TL3-065
UXO21_TL3-00067	UXO21_TL3	3.1	8/23/2011	287372.3	3838408.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.05	Scrap Bin	None	Scrap metal
UXO21_TL3-00068	UXO21_TL3	3.29	8/23/2011	287371.6	3838409.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	
UXO21_TL3-00069	UXO21_TL3	3.53	8/23/2011	287371	3838410.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	Foil
UXO21_TL3-00070	UXO21_TL3	3.36	8/23/2011	287367	3838416.3	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.02	Scrap Bin	None	Nail
UXO21_TL3-00071	UXO21_TL3	4.18	8/23/2011	287363.5	3838421.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	Nails
UXO21_TL3-00072	UXO21_TL3	4.59	8/23/2011	287362.4	3838424.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	0.05	Scrap Bin	None	
UXO21_TL3-00073	UXO21_TL3	4.27	8/23/2011	287361.8	3838426.3	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	1	Scrap Bin	None	Hub cap
UXO21_TL3-00074	UXO21_TL3	3.96	8/23/2011	287360.6	3838429.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	Foil
UXO21_TL3-00075	UXO21_TL3	3.3	8/23/2011	287359.8	3838432	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	Foil
UXO21_TL3-00076	UXO21_TL3	4.38	8/23/2011	287359.2	3838433.6	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	
UXO21_TL3-00077	UXO21_TL3	3.01	8/23/2011	287358.2	3838436.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	1	Scrap Bin	None	Scrap metal
UXO21_TL3-00078	UXO21_TL3	3.95	8/23/2011	287357	3838440.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	1	Scrap Bin	None	Wheeelbearing
UXO21_TL3-00079	UXO21_TL3	3.33	8/23/2011	287356.9	3838441	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	
UXO21_TL3-00080	UXO21_TL3	3.15	8/23/2011	287356.5	3838442.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.01	Scrap Bin	None	
UXO21_TL3-00081	UXO21_TL3	4.58	8/23/2011	287356.1	3838444.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	
UXO21_TL3-00082	UXO21_TL3	3.29	8/23/2011	287355.5	3838447.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.05	Scrap Bin	None	Wire
UXO21_TL3-00083	UXO21_TL3	7.3	8/23/2011	287355.1	3838449.1	Shared	Shared Target	Shared	N/A	N/A	0	0	0	Left in Place	None	Shared with TL3-084
UXO21_TL3-00084	UXO21_TL3	4.38	8/23/2011	287354.6	3838449.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.05	Scrap Bin	None	Shared with tl3-00083
UXO21_TL3-00085	UXO21_TL3	3.45	8/23/2011	287350.1	3838455.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	
UXO21_TL3-00086	UXO21_TL3	4.05	8/23/2011	287349	3838457.3	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.01	Scrap Bin	None	Bottle cap
UXO21_TL3-00087	UXO21_TL3	3.19	8/23/2011	287347.4	3838459.5	Cultural Debris	Scrap	N/A	N/A	N/A	2	1	0.1	Scrap Bin	None	
UXO21_TL3-00088	UXO21_TL3	3.21	8/23/2011	287346	3838461.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	Foil
UXO21_TL3-00089	UXO21_TL3	4.25	8/23/2011	287343.2	3838469.1	Cultural Debris	Scrap	N/A	N/A	N/A	5	8	5	Scrap Bin	None	Metal spikes
UXO21_TL31-00001	UXO21_TL31	6.01	8/25/2011	287425.8	3838336.2	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	Silt fence stake
UXO21_TL31-00002	UXO21_TL31	3.22	8/25/2011	287421.2	3838345.6	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	0.5	Scrap Bin	None	
UXO21_TL31-00003	UXO21_TL31	3.07	8/25/2011	287420.7	3838346.7	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL31-00004	UXO21_TL31	3.07	8/25/2011	287418.2	3838351.8	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL31-00005	UXO21_TL31	3.16	8/25/2011	287416.6	3838355.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	1	Scrap Bin	None	
UXO21_TL31-00006	UXO21_TL31	52.05	8/25/2011	287415.5	3838357.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	1	Scrap Bin	None	
UXO21_TL31-00007	UXO21_TL31	28.3	8/25/2011	287415.1	3838358.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	1	Scrap Bin	None	
UXO21_TL31-00008	UXO21_TL31	16.32	8/25/2011	287413	3838362.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	1	Scrap Bin	None	
UXO21_TL31-00009	UXO21_TL31	3.87	8/25/2011	287406	3838376.3	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	0.5	Scrap Bin	None	
UXO21_TL31-00010	UXO21_TL31	9.15	8/25/2011	287404.4	3838379.3	Cultural Debris	Scrap	N/A	N/A	N/A	1	12	0.5	Scrap Bin	None	
UXO21_TL31-00011	UXO21_TL31	4.17	8/25/2011	287403.6	3838380.9	MPPEH	Grenade	Other (See Comments)	Empty	Unfuzed	1	12	0.1	Consolidation Point	Demil	Grenade spoon
UXO21_TL31-00012	UXO21_TL31	3.31	8/25/2011	287399.6	3838388.6	Cultural Debris	Scrap	N/A	N/A	N/A	5	13	1	Scrap Bin	None	Wire/nails
UXO21_TL31-00013	UXO21_TL31	3.61	8/25/2011	287398.6	3838390.5	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL31-00014	UXO21_TL31	3.69	8/25/2011	287397.6	3838392.4	Shared	Shared Target	Shared	N/A	N/A	0	0	0	Left in Place	None	Shared with TL31-015
UXO21_TL31-00015	UXO21_TL31	4.17	8/25/2011	287397.3	3838393	Cultural Debris	Scrap	N/A	N/A	N/A	4	10	1.5	Scrap Bin	None	Metal cap shared with tl31-00014
UXO21_TL31-00016	UXO21_TL31	3.73	8/25/2011	287390.8	3838405.5	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL31-00017	UXO21_TL31	3.4	8/25/2011	287390.2	3838406.6	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.1	Scrap Bin	None	Wire
UXO21_TL31-00018	UXO21_TL31	3.54	8/25/2011	287389.9	3838407.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	0.1	Scrap Bin	None	Nail
UXO21_TL31-00019	UXO21_TL31	3.22	8/25/2011	287387.1	3838412.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.1	Scrap Bin	None	Wire
UXO21_TL31-00020	UXO21_TL31	3.15	8/25/2011	287386	3838414.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	5	0.25	Scrap Bin	None	Metal bracket
UXO21_TL31-00021	UXO21_TL31	18.09	8/25/2011	287382.8	3838420.6	Cultural Debris	Scrap	N/A	N/A	N/A	2	4	0.25	Scrap Bin	None	Wire
UXO21_TL31-00022	UXO21_TL31	3.59	8/25/2011	287379.7	3838426.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	5	0.1	Scrap Bin	None	Wire
UXO21_TL31-00023	UXO21_TL31	3.24	8/25/2011	287378.4	3838429	Cultural Debris	Scrap	N/A	N/A	N/A	2	4	0.1	Scrap Bin	None	Wire
UXO21_TL31-00024	UXO21_TL31	3.34	8/25/2011	287376.6	3838432.5	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL31-00025	UXO21_TL31	3.52	8/25/2011	287370.1	3838445.1	Cultural Debris	Scrap	N/A	N/A	N/A	2	6	0.5	Scrap Bin	None	
UXO21_TL31-00026	UXO21_TL31	3.23	8/25/2011	287369.2	3838446.8	Cultural Debris	Scrap	N/A	N/A	N/A	3	10	0.5	Scrap Bin	None	Wire
UXO21_TL31-00027	UXO21_TL31	4.45	8/25/2011	287367.3	3838450.5	Cultural Debris	Scrap	N/A	N/A	N/A	2	6	0.05	Scrap Bin	None	Can/wire
UXO21_TL31-00028	UXO21_TL31	18.58	8/25/2011	287365.7	3838453.6	Cultural Debris	Scrap	N/A	N/A	N/A	2	6	1	Scrap Bin	None	Metal cap/washer
UXO21_TL31-00029	UXO21_TL31	3.18	8/25/2011	287364.6	3838455.8	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	Nail
UXO21_TL31-00030	UXO21_TL31	4.83	8/25/2011	287361.4	3838461.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	Nail
UXO21_TL31-00031	UXO21_TL31	3.14	8/25/2011	287358.7	3838467.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.5	Scrap Bin	None	Picee of banding wire
UXO21_TL31-00032	UXO21_TL31	3.98	8/25/2011	287358.3	3838467.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.05	Scrap Bin	None	Communication wire
UXO21_TL31-00033	UXO21_TL31	4.76	8/25/2011	287356.5	3838471.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	5	0.05	Scrap Bin	None	Wire
UXO21_TL31-00034	UXO21_TL31	3.03	8/25/2011	287355.1	3838474.2	Shared	Shared Target	Shared	N/A	N/A	0	0	0	Left in Place	None	Shared with TL31-035
UXO21_TL31-00035	UXO21_TL31	3.6	8/25/2011	287354.8	3838474.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	6	0.01	Scrap Bin	None	Bolt Shared with tl31-00034
UXO21_TL32-00001	UXO21_TL32	21.75	8/20/2011	287286	3838220	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	

TABLE C-1
MEC Intrusive Investigation Results
Site UXO-21
MCB CamLej, North Carolina

Anomaly Identification	Grid	Amplitude (millivolts)	Dig Date	Easting (UTM)	Northing (UTM)	Item Group	Item Class	Category	Filler	Fuze	Quantity	Depth (inch)	Weight (pound)	Action Taken	Demolition Required?	Item Comment
UXO21_TL32-00002	UXO21_TL32	3.75	8/20/2011	287287.2	3838220.8	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL4-00001	UXO21_TL4	4.43	8/20/2011	287435.1	3838270	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL4-00002	UXO21_TL4	3.7	8/20/2011	287434.4	3838271.3	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL4-00003	UXO21_TL4	8.84	8/20/2011	287422.8	3838286	No Contact	No Contact	N/A	N/A	N/A	0	0	0	Left in Place	None	
UXO21_TL4-00004	UXO21_TL4	7.04	8/25/2011	287417.8	3838293.5	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction area graded
UXO21_TL4-00005	UXO21_TL4	3.1	8/25/2011	287340.1	3838449.8	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction site area graded
UXO21_TL5-00001	UXO21_TL5	4.29	8/23/2011	287441.9	3838227.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.05	Scrap Bin	None	Foil
UXO21_TL5-00002	UXO21_TL5	14.96	8/23/2011	287441.5	3838239.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.05	Scrap Bin	None	Bolt
UXO21_TL5-00003	UXO21_TL5	4.21	8/23/2011	287440.6	3838239.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.01	Scrap Bin	None	Wire
UXO21_TL5-00004	UXO21_TL5	3.43	8/23/2011	287434.1	3838242.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	0.25	Scrap Bin	None	Scrap metal
UXO21_TL5-00005	UXO21_TL5	7.08	8/20/2011	287421.5	3838263.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	0.1	Scrap Bin	None	Nail
UXO21_TL5-00006	UXO21_TL5	7.68	8/20/2011	287419.6	3838266	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Power line
UXO21_TL5-00007	UXO21_TL5	4.54	8/20/2011	287418.7	3838267.2	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Power line
UXO21_TL5-00008	UXO21_TL5	3.97	8/20/2011	287418.3	3838267.8	Facility Resource	Utility	N/A	N/A	N/A	0	0	0	Left in Place	None	Power line
UXO21_TL5-00009	UXO21_TL5	6.4	8/20/2011	287416.7	3838269.9	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Paved roadway
UXO21_TL5-00010	UXO21_TL5	3.13	8/20/2011	287416.2	3838270.6	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Paved roadway
UXO21_TL5-00011	UXO21_TL5	3.26	8/20/2011	287415.7	3838271.3	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Paved roadway
UXO21_TL5-00012	UXO21_TL5	5.55	8/20/2011	287415.3	3838272.1	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Paved roadway
UXO21_TL5-00013	UXO21_TL5	3.34	8/20/2011	287413.8	3838276.2	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Paved roadway
UXO21_TL5-00014	UXO21_TL5	7.75	8/20/2011	287413	3838278.6	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Paved roadway
UXO21_TL5-00015	UXO21_TL5	11.33	8/20/2011	287412.7	3838279.4	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Area graded for road
UXO21_TL5-00016	UXO21_TL5	5.94	8/20/2011	287411.8	3838282.1	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Area graded for road
UXO21_TL5-00017	UXO21_TL5	3.56	8/23/2011	287349.1	3838405.7	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.02	Scrap Bin	None	
UXO21_TL5-00018	UXO21_TL5	3.41	8/23/2011	287344.7	3838414.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.01	Scrap Bin	None	
UXO21_TL5-00019	UXO21_TL5	3.84	8/23/2011	287334.4	3838432.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.02	Scrap Bin	None	Nail
UXO21_TL5-00020	UXO21_TL5	3.14	8/23/2011	287332	3838437.3	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.02	Scrap Bin	None	Can lid
UXO21_TL5-00021	UXO21_TL5	3.09	8/23/2011	287319	3838462.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.02	Scrap Bin	None	Nail
UXO21_TL6-00001	UXO21_TL6	3.2	8/23/2011	287419.4	3838249	MPPEH	Grenade	M20A1, Grenade, Rifle, Star, Cluster, Green	Empty	Unfuzed	1	0	1	Consolidation Point	Demil	Tail boom
UXO21_TL6-00002	UXO21_TL6	25.84	8/23/2011	287321.8	3838433.9	MPPEH	Grenade	M19 Illumination Rifle Grenade	Empty	Unfuzed	1	2	1	Consolidation Point	Demil	Tail boom
UXO21_TL6-00003	UXO21_TL6	134.93	8/23/2011	287305.2	3838467.8	Cultural Debris	Scrap	N/A	N/A	N/A	2	6	1.5	Scrap Bin	None	2 soda cans
UXO21_TL6-00004	UXO21_TL6	3.21	8/23/2011	287301	3838474.6	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	0.02	Scrap Bin	None	Nail
UXO21_TL7-00001	UXO21_TL7	15.47	8/22/2011	287407.3	3838245.9	MPPEH	Grenade	M20A1, Grenade, Rifle, Star, Cluster, Green	Empty	Unfuzed	1	2	1	Consolidation Point	Demil	Tail boom
UXO21_TL7-00002	UXO21_TL7	3.12	8/22/2011	287403.3	3838253.5	Cultural Debris	Scrap	N/A	N/A	N/A	6	0	20	Left in Place	None	Bases to warning barrels
UXO21_TL7-00003	UXO21_TL7	4.87	8/20/2011	287401	3838258	Cultural Debris	Scrap	N/A	N/A	N/A	1	4	0.1	Scrap Bin	None	
UXO21_TL7-00004	UXO21_TL7	3.75	8/23/2011	287317.9	3838417.4	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	
UXO21_TL7-00005	UXO21_TL7	3.3	8/23/2011	287316.5	3838420	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.02	Scrap Bin	None	Nail
UXO21_TL7-00006	UXO21_TL7	64.27	8/23/2011	287308.6	3838430.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.02	Scrap Bin	None	Foil
UXO21_TL7-00007	UXO21_TL7	4.82	8/23/2011	287292.7	3838466.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	1	Scrap Bin	None	Tent stake
UXO21_TL8-00001	UXO21_TL8	197.95	8/25/2011	287409.4	3838218.1	Cultural Debris	Scrap	N/A	N/A	N/A	55	13	15	Scrap Bin	None	Metal bolts Shared with tl8-00002
UXO21_TL8-00002	UXO21_TL8	75.71	8/25/2011	287408.7	3838219.4	Shared	Shared Target	Shared	N/A	N/A	0	0	0	Left in Place	None	Shared with TL8-001
UXO21_TL8-00003	UXO21_TL8	3.09	8/20/2011	287384.1	3838265.2	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.1	Scrap Bin	None	Wire
UXO21_TL8-00004	UXO21_TL8	3.14	8/23/2011	287311.8	3838405.9	Cultural Debris	Scrap	N/A	N/A	N/A	1	1	0.01	Scrap Bin	None	
UXO21_TL8-00005	UXO21_TL8	3.01	8/23/2011	287302	3838424.3	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.02	Scrap Bin	None	Foil
UXO21_TL8-00006	UXO21_TL8	3.06	8/23/2011	287282.3	3838467.5	Cultural Debris	Scrap	N/A	N/A	N/A	1	2	0.01	Scrap Bin	None	Tin lid
UXO21_TL9-00001	UXO21_TL9	4.28	8/20/2011	287405.2	3838201.6	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Area graded
UXO21_TL9-00002	UXO21_TL9	3.73	8/20/2011	287403.2	3838204.2	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Areagraded
UXO21_TL9-00003	UXO21_TL9	3.09	8/20/2011	287399.9	3838209	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Area graded
UXO21_TL9-00004	UXO21_TL9	3.89	8/20/2011	287381.1	3838247.4	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Area graded
UXO21_TL9-00005	UXO21_TL9	4.58	8/20/2011	287380.4	3838249.3	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Area graded
UXO21_TL9-00006	UXO21_TL9	36.39	8/25/2011	287377.9	3838255.1	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction site area graded
UXO21_TL9-00007	UXO21_TL9	5.05	8/25/2011	287377.3	3838256.2	Facility Resource	Road	N/A	N/A	N/A	0	0	0	Left in Place	None	Construction site area graded
UXO21_TL9-00008	UXO21_TL9	3.21	8/24/2011	287288.6	3838427.1	Cultural Debris	Scrap	N/A	N/A	N/A	1	3	0.02	Scrap Bin	None	

QC - quality control
MPPEH - Materially potentially presenting an explosive hazard
TBD - to be determined
N/A - not applicable
UXO - unexploded ordnance
UTM - Universal Transverse Mercator, Zone 18
MEC - munitions and explosives of concern
ft - feet

Appendix D
Post-Detonation Analytical Results

TABLE D-1
Post-Detonation Surface Soil Analytical Results - Detections
Site UXO-21 Expanded SI Report
MCB CamLej, North Carolina

Sample ID	**MR21-SS41D-OC-11C**	**MR21-SS41-IC-11C**	**MR21-SS41-OC-11C**
Sample Date	**8/25/11**	**8/25/11**	**8/25/11**
Chemical Name			
Explosives (UG/KG)			
No Detections			
Total Metals (MG/KG)			
Aluminum	2,970 E	2,120 E	2,400 E
Barium	4.75	3.97	4.94
Beryllium	0.0173 J	0.0153 J	0.0186 J
Cadmium	0.165 U	0.0203 J	0.139 U
Calcium	287	247	314
Chromium	1.72	1.36	1.52
Cobalt	0.116 J	0.102 J	0.12 J
Copper	0.5 J	0.525 J	0.569 J
Iron	931 BE	716 BE	821 BE
Lead	2.14	1.95	2.19
Magnesium	72.2	61.3	71.1
Manganese	4.43	4.18	6.43
Nickel	0.951	0.718 J	0.799
Potassium	58	73.3	63.5
Sodium	8.23 J	13.1 J	9.74 J
Vanadium	2.99	2.27	2.63
Zinc	0.885	0.894	1.23

Notes:
B - The analyte was detected in the associated method blank
E - Concentration exceeds calibration range of the instrument
J - Analyte present. Value may or may not be accurate or precise
MG/KG - Milligrams per kilogram
Q - The RPD and/or percent recovery exceeded limits in the associated laboratory control sample (LCS) and/or its duplicate.
U - The material was analyzed for, but not detected
UG/KG - Micrograms per kilogram
Shading indicates detection

TABLE D-2

Post-Detonation Surface Soil Analytical Results - Al

Site UXO-21 Expanded SI Report

MCB CamLej, North Carolina

Sample ID	**MR21-SS41D-OC-11C**	**MR21-SS41-IC-11C**	**MR21-SS41-OC-11C**
Sample Date	**8/25/11**	**8/25/11**	**8/25/11**
Chemical Name			
Explosives (UG/KG)			
1,3,5-Trinitrobenzene	300 U	300 U	300 U
1,3-Dinitrobenzene	300 U	300 U	300 U
2,4,6-Trinitrotoluene	300 U	300 U	300 U
2,4-Dinitrotoluene	300 U	300 U	300 U
2,6-Dinitrotoluene	300 U	300 U	300 U
2-Amino-4,6-dinitrotoluene	300 U	300 U	300 U
2-Nitrotoluene	300 U	300 U	300 U
3-Nitrotoluene	300 U	300 U	300 U
4-Amino-2,6-dinitrotoluene	300 U	300 U	300 U
4-Nitrotoluene	300 U	300 U	300 U
HMX	300 U	300 U	300 U
Nitrobenzene	300 U	300 U	300 U
Nitroglycerin	1000 U	1000 U	1000 U
Perchlorate	1.05 U	1.06 U	1.18 U
PETN	500 U	500 U	500 U
RDX	300 U	300 U	300 U
Tetryl	300 QU	300 QU	300 QU
Total Metals (MG/KG)			
Aluminum	2,970 E	2,120 E	2,400 E
Antimony	1.65 U	1.45 U	1.39 U
Arsenic	1.65 U	1.45 U	1.39 U
Barium	4.75	3.97	4.94
Beryllium	0.0173 J	0.0153 J	0.0186 J
Cadmium	0.165 U	0.0203 J	0.139 U
Calcium	287	247	314
Chromium	1.72	1.36	1.52
Cobalt	0.116 J	0.102 J	0.12 J
Copper	0.5 J	0.525 J	0.569 J
Iron	931 BE	716 BE	821 BE
Lead	2.14	1.95	2.19
Magnesium	72.2	61.3	71.1
Manganese	4.43	4.18	6.43
Mercury	0.0275 U	0.0288 U	0.0279 U
Nickel	0.951	0.718 J	0.799
Potassium	58	73.3	63.5
Selenium	1.65 U	1.45 U	1.39 U
Silver	0.412 U	0.362 U	0.348 U
Sodium	8.23 J	13.1 J	9.74 J
Thallium	0.823 U	0.723 U	0.696 U
Vanadium	2.99	2.27	2.63
Zinc	0.885	0.894	1.23

Notes:

B - The analyte was detected in the associated method blank

E - Concentration exceeds calibration range of instrument

J - Analyte present. Value may or may not be accurate or precise

MG/KG - Milligrams per kilogram

Q - The RPD and/or percent recovery exceeded limits in the associated laboratory control sample (LCS) and/or its duplicate.

U - The material was analyzed for, but not detected

UG/KG - Micrograms per kilogram