DRAFT FINAL
MRS-BLM Unit 5
MUNITIONS AND EXPLOSIVES OF CONCERN
REMEDIAL ACTION REPORT
Former Fort Ord, California

U.S. Department of the Army
Fort Ord Base Realignment and Closure
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Acronyms and Abbreviations

AR	Administrative Record
ARARs	applicable or relevant and appropriate requirements
Army	U.S. Department of the Army
ASCII	American Standard Code for Information Interchange
BLM	Bureau of Land Management
BRA	Basewide Range Assessment
BRAC	Base Realignment and Closure
CAR	corrective action request
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
cm	centimeter
CMC	central maritime chaparral
CTS	California Tiger Salamander
cy	cubic yards
DGM	Digital Geophysical Mapping
DMM	Discarded Military Munitions
DTSC	Department of Toxic Substances Control
EPA	U.S. Environmental Protection Agency
FFA	Federal Facility Agreement
FS	feasibility study
FWV	Field Work Variance

Gilbane	Gilbane Building Company
GPS	global positioning system
HMP	Habitat Management Plan
KEMRON	KEMRON Environmental Services
LUC	Land Use Control
MACTEC	MACTEC Engineering and Consulting, Inc.
MC	munitions constituents
MD	munitions debris
MDAS	material documented as safe
MEC	munitions and explosives of concern
mg/kg	milligram/kilogram
mm	millimeter
MMRP	Military Munitions Response Program
MPPEH	Material Potentially Presenting an Explosive Hazard
MQO	measurement quality objective
MR	munitions response
MRA	munitions response area
MRS	munitions response site
OE	ordnance and explosives
OESS	Ordnance and Explosives Safety Specialist
PBO	Programmatic Biological Opinion
QA	quality assurance
QC	quality control
RAO	remedial action objective
RAR	Remedial Action Report
RD/RA	Remedial Design/Remedial Action
RI	remedial investigation
ROD	Record of Decision
RRD	range-related debris
RTK	real-time kinematic
SSWP	Site-Specific Work Plan
SUXOS	Senior Unexploded Ordnance Supervisor
TM	Technical Memorandum
USACE	U.S. Army Corps of Engineers
USFWS	U.S. Fish and Wildlife Service

UXO	unexploded ordnance
UXOQCS	Unexploded Ordnance Quality Control Specialist
WERS	Worldwide Environmental Remediation Services

Definitions[1]

Anomaly avoidance – Techniques employed on property known or suspected to contain unexploded ordnance (UXO), other munitions that may have experienced abnormal environments [e.g., Discarded Military Munitions (DMM)], munitions constituents in high enough concentrations to pose an explosive hazard, or CA, regardless of configuration, to avoid contact with potential surface or subsurface explosive or CA hazards, to allow entry to the area for the performance of required operations.

Construction support - Assistance provided by Department of Defense (DoD) Explosive Ordnance Disposal (EOD) or UXO-qualified personnel or by personnel trained and qualified for operations involving CA, regardless of configuration, during intrusive construction activities on property known or suspected to contain UXO, other munitions that may have experienced abnormal environments (e.g., DMM), munitions constituents in high enough concentrations to pose an explosive hazard, or CA, regardless of configuration, to ensure the safety of personnel or resources from any potential explosive or CA hazards. Source: (7).

Cultural debris/feature – Any manmade object or objects that are not munitions related and do not present an explosive hazard.

Discarded military munitions (DMM)[2] – Military munitions that have been abandoned without proper disposal or removed from storage in a military magazine or other storage area for the purpose of disposal. The term does not include unexploded ordnance, military munitions that are being held for future use or planned disposal, or military munitions that have been properly disposed of consistent with applicable environmental laws and regulations. Defined in section 2710(e)(2) of Title 10, U.S.C.

Explosive Ordnance Disposal (EOD) personnel – Military personnel who have graduated from

the Naval School, EOD; are assigned to a military unit with a Service-defined EOD mission; and meet Service and assigned unit requirements to perform EOD duties. EOD personnel have received specialized training to address explosive and certain CA hazards during both peacetime and wartime. EOD personnel are trained and equipped to perform render safe procedures (RSP) on nuclear, biological, chemical, and conventional munitions, and on improvised explosive devices.

Land use controls (LUCs) – Physical, legal, or administrative mechanisms that restrict the use of, or limit access to, real property, to manage risks to human health and the environment. Physical mechanisms encompass a variety of engineered remedies to contain or reduce contamination, or physical barriers to limit access to real property, such as fences or signs.

Material documented as safe (MDAS) – Material potentially presenting an explosive hazard (MPPEH) that has been assessed and documented as not presenting an explosive hazard and for which the chain of custody has been established and maintained. This material is no longer considered to be MPPEH. Defined in DoDI 4140.62.

Material documented as an explosive hazard (MDEH) – MPPEH that cannot be documented as MDAS, that has been assessed and documented as to the maximum explosive hazards the material is known or suspected to present, and for which the chain of custody has been established and maintained. This material is no longer considered to be MPPEH. Defined in DoDI 4140.62.

Material potentially presenting an explosive hazard (MPPEH) – Material that, prior to determination of its explosives safety status, potentially contains explosives or munitions (e.g., munitions containers and packaging material; munitions debris (MD) remaining after munitions use, demilitarization, or disposal; and range-related debris); or potentially contains a high enough concentration of explosives such that the material presents an explosive hazard (e.g., equipment, drainage systems, holding tanks, piping, or ventilation ducts that were associated with munitions production, demilitarization or disposal operations). Excluded from MPPEH are munitions within

DoD's established munitions management system and other hazardous items that may present explosion hazards (e.g., gasoline cans, compressed gas cylinders) that are not munitions and are not intended for use as munitions. Defined in DoDI 4140.62.

Military munitions – Military munitions means all ammunition products and components produced for or used by the armed forces for national defense and security, including ammunition products or components under the control of the DoD, the Coast Guard, the Department of Energy, and the National Guard. The term includes confined gaseous, liquid, and solid propellants, explosives, pyrotechnics, chemical and riot control agents, smokes, and incendiaries, including bulk explosives and chemical warfare agents, chemical munitions, rockets, guided and ballistic missiles, bombs, warheads, mortar rounds, artillery ammunition, small arms ammunition, grenades, mines, torpedoes, depth charges, cluster munitions and dispensers, demolition charges, and devices and components thereof. Defined in section 101(e)(4) of Title 10, U.S.C.

Munitions constituents (MC) – Any materials originating from UXO, DMM, or other military munitions, including explosive and nonexplosive materials, and emission, degradation, or breakdown elements of such ordnance or munitions. Defined in section 2710(e)(3) of Title 10, U.S.C.

Munitions debris (MD) – Remnants of munitions (e.g., fragments, penetrators, projectiles, shell casings, links, fins) remaining after munitions use, demilitarization, or disposal.

Munitions and explosives of concern (MEC)[2] – A term distinguishing specific categories of military munitions that may pose unique explosives safety risks: UXO, as defined in section 101(e)(5) of Title 10, U.S.C.; DMM, as defined in section 2710(e)(2) of Title 10, U.S.C.; or munitions constituent [e.g., TNT, cyclotrimethylenetrinitramine (RDX)], as defined in section 2710(e)(3) of Title 10, U.S.C., present in high enough concentrations to pose an explosive hazard.

Munitions response (MR) – Response actions, including investigation, removal actions, and remedial actions to address the explosives safety, human health, or environmental risks

presented by UXO, DMM, or MC, or to support a determination that no removal or remedial action is required.

Munitions response area (MRA) – Any area on a defense site that is known or suspected to contain UXO, DMM, or MC. Examples include former ranges and munitions burial areas. An MRA is comprised of one or more MRSs.

Munitions response site (MRS) – A discrete location within an MRA that is known to require a munitions response.

On-call construction support – Construction support provided, on an as-needed basis, where the probability of encountering UXO, other munitions that may have experienced abnormal environments (e.g., DMM), munitions constituent in high enough concentrations to pose an explosive hazard, or CA, regardless of configuration, has been determined to be low. This support can respond from offsite when called, or be onsite and available to provide required construction support.

Range-related debris – Debris, other than munitions debris, collected from operational ranges or from former ranges (e.g., target debris, military munitions packaging and crating material).

Small arms ammunition – Ammunition, without projectiles that contain explosives (other than tracers), that is .50 caliber or smaller, or for shotguns.

Unexploded ordnance (UXO)[2] – Military munitions that (1) have been primed, fuzed, armed, or otherwise prepared for action; (2) have been fired, dropped, launched, projected, or placed in such a manner as to constitute a hazard to operations, installations, personnel, or material; and (3) remain unexploded either by malfunction, design, or any other cause. Defined in section 101(e)(5) of Title 10, U.S.C.

UXO-qualified personnel – Personnel who have performed successfully in military EOD positions or are qualified to perform in the following Department of Labor, Service Contract Act, Directory of Occupations, contractor positions: UXO Technician II, UXO Technician III, UXO Safety Officer, UXO Quality Control Specialist, or Senior UXO Supervisor.

UXO technicians – Personnel who are qualified for and filling Department of Labor, Service Contract Act, Directory of Occupations, contractor positions of UXO Technician I, UXO Technician II, and UXO Technician II.

[1] Official definitions, as provided in Department of Defense Explosives Safety Regulation 6055.09, Edition 1, Change 1, February 2024.

[2] For the purposes of the basewide Munitions Response Program being conducted for the former Fort Ord, MEC does not include small arms ammunition .50 caliber and below..

1.0 Introduction

This Remedial Action Report (RAR) describes the work elements and results for the munitions and explosives of concern (MEC) remedial action conducted at Munitions Response Site (MRS) - Bureau of Land Management (BLM) Unit 5 (Unit 5) (Figures 1 and 2) at the former Fort Ord, California. The remedial work in Unit 5 was performed by KEMRON Environmental Services (KEMRON) for the U.S. Department of the Army under U.S. Army Corps of Engineers' Contract #W9123820D0004, Task Orders No. W9123821F0077 and W9123824F0035. The major event milestones of this remedial action are shown in Table 1. This work has been completed in accordance with the:

- Final Track 3 Record of Decision, Impact Area Munitions Response Area, Track 3 Munitions Response Site, Former Fort Ord, California [Track 3 ROD; United States Department of the Army (Army), 2008],
- Final Work Plan Remedial Design (RD)/Remedial Action (RA) Track 3 Impact Area Munitions Response Area (MRA) Munitions and Explosives of Concern (MEC) Removal Former Fort Ord, California (Final RD/RA Work Plan; USACE, 2009).
- Final Quality Assurance Project Plan, Volume II, Appendix A, Munitions and Explosives of Concern Remedial Action, Former Fort Ord, California. (MEC QAPP, KEMRON, 2016).
- Remedial Design (RD)/Remedial Action (RA) Work Plan Update Track 3 Impact Area Munitions Response Area (MRA) Munitions and Explosives of Concern (MEC) Removal Former Fort Ord, California (RD/RA Work Plan Update; KEMRON, 2018).
- Addendum to Final Work Plan, MRS-BLM Units 1-5 Munitions and Explosives of Concern Removal, Former Fort Ord, California, Unit 5 (KEMRON, 2022a).

In this document, the "project area" does not include the permanent fuel breaks surrounding the unit. Remedial work within Unit 5 was conducted in several phases which will be described in forthcoming sections in this document.

1.1 Purpose and Scope

This RAR describes the remedial action conducted in Unit 5, within the Impact Area Munitions Response Area (MRA). The general scope of the remedial action, as defined in the Track 3 ROD (Army, 2008), is to manage "the potential risk to future land users from MEC at the Impact Area MRA."

Track 3 sites are areas at the former Fort Ord where MEC is known or suspected to be present, but MEC investigations have not yet been completed. The Track 3 site, known as the Impact Area MRA, consists of the 6,560-acre portion of the 8,000-acre historical Impact Area that is entirely within the natural resources management area described in the *Installation-Wide Multispecies Habitat Management Plan for Former Fort Ord, California* [HMP, (USACE, 1997)] and is currently identified for transfer to the BLM. The Impact Area MRA is designated as a habitat reserve in the Fort Ord Reuse Authority Base Reuse Plan.

Unit 5 is approximately 130 acres and is in the southern portion of the Impact Area MRA, within the MRS-BLM. The Track 3 ROD was signed in 2008. As part of the remedial action in Unit 5, MEC removal was conducted in the southwest portion in 2013 and the remainder in 2022-2023. Subsurface removal in the soil cleanup area of HA-29 occurred in 2010. The Remedial Action in the southwestern portion of the unit was completed in 2013 as a part of the containment lines to support planned prescribed buns in Units 7 and 10. Digital geophysical mapping in this area was completed after the prescribed burn event in October 2013. This work is addressed in the *MRS-BLM Units 7, 10, and 33 MEC Remedial Action Technical Memorandum, Former Fort Ord, California* (Gilbane, 2015). Results of the subsurface removal in HA-29 has been reported in the Site 39 habitat area Remedial Action Completion Report (RACR) (Gilbane, 2014). Previous munition removal actions in Unit 5 include subsurface MEC removal on Vulcan Road and Forrestal Road, and the100% Sampling Grid in the central portion of the unit. The remedial actions and the prior munition response areas are shown on Figure 3.

The scope of this project, as defined in the Addendum to Final Work Plan (KEMRON, 2022a), entailed the following:

- Vegetation clearance (Figure 5),
- Technology-aided surface MEC removal (Figure 6),
- Digital Geophysical Mapping (DGM) in accessible areas of Unit 5 (Figure 8),
- Submittal of the *MRS-BLM Unit 5, MEC Remedial Action Technical Memorandum* (Unit 5 TM; KEMRON, 2023b), in May 2023 (Appendix A)

- Geophysical anomaly investigation of Pond 21 (Appendix B)

In addition, the following field work was identified in the *MRS-BLM Unit 5, MEC Remedial Action Technical Memorandum* (Unit 5 TM; KEMRON, 2023b), Appendix A. Work completed after the submission of the Unit 5 TM and is reported in this RAR is as follows:

- DGM survey for Pond 76 by USACE, in September 2023 (Appendix C)
- Pond 76 intrusive investigation was performed under approved field work variance FWV 001 in November 2023 (Appendix I)
- Subsurface MEC Removal in Pond 76 - completed in November 2023.
- Subsurface Risk Reduction Additional Anomaly Investigation Work Plan (KEMRON, 2024) – completed in April 2024
- Risk Reduction Target Investigation/Subsurface MEC Removal – completed in June 2024
- Large Data Gap/Risk Reduction MEC Removal – completed in July 2024
- Unit 5 Target Box Filling Technical Memorandum (Appendix D) - completed in July 2024

This RAR details the work completed as part of the Unit 5 MEC remedial action and provides discussion of the following tasks:

- Vegetation clearance
- MEC removal area grid and boundary staking
- Technology-aided surface MEC removal
- DGM
- Risk Reduction/Subsurface MEC removal in selected areas

1.2 Approval Documents

The work was conducted in accordance with the Final Work Plan MRS-BLM Units 1-5 (Shaw, 2008), Final RD/RA Work Plan (USACE, 2009), the Remedial Design (RD)/Remedial Action (RA) Work Plan Update (KEMRON, 2018b), governing the Track 3 Impact Area MRA. The Addendum to Final Work Plan

(KEMRON, 2022a) detailed the scope and site-specific procedures for the MEC remedial action within Unit 5. After completing surface MEC remediation and DGM in the unit, the Unit 5 TM (KEMRON, 2023b) was submitted in May 2023, providing evaluation of the work completed. This TM is included as Appendix A. Work was also performed in accordance with Field Work Variance No. 1 (Appendix I) and the Subsurface Risk Reduction Additional Anomaly Investigation Work Plan (KEMRON, 2024).

1.3 Project Personnel and Subcontractors

MEC removal work was performed with qualified Unexploded Ordnance (UXO) technicians who met or exceeded the requirements of Technical Paper 18, Revision 1, Minimum Qualifications for Personnel Conducting Munitions and Explosives of Concern Related Activities [Department of Defense Explosives Safety Board (DDESB), 2020], which was the controlling document at the time the work was performed. The key personnel for this project were:

- Senior Unexploded Ordnance Supervisor (SUXOS): Brad Olson (KEMRON)
- UXO Quality Control (QC) Specialist (UXOQCS): Bruce McClain (KEMRON)
- UXO Safety Officer: Chris Light, Jonathan Ansorge, Erick Gonzalez (KEMRON)
- QC Geophysicist: Alex Kostera (AECOM)
- Project Manager: Steve Crane (KEMRON)
- Project Geophysicist: Andrew Gascho (AECOM)
- Technical Editor, GIS Manager: Larry Carr (AECOM)
- UXO Technicians: (KEMRON)

The following tasks were subcontracted:

- Mechanical vegetation clearance (Woolery Timber Management)
- Manual vegetation clearance (High Sierra Fire)
- Geophysical data collection and processing (NAEVA Geophysics)
- Biological protection and inspection (Denise Duffy & Associates)
- Recycling of metallic target debris (A & S Metals)

- Disposal/recycling of munitions debris (MD) (Demil Metals)
- Additional (2) UXO Technicians (Aerotek)

1.4 Health and Safety

Work performed at the site was conducted and completed in accordance with the Revision 4: Accident Prevention Plan – Munitions and Explosives of Concern (MEC) Removal and Soil Remediation Project, Former Fort Ord, California (KEMRON, 2021).

1.5 Report Organization

This RAR was prepared in accordance with the Track 3 RD/RA Work Plan (USACE, 2009) and is consistent with previous RARs for units within the Impact Area MRA at the former Fort Ord. The report also incorporates elements of U.S. Environmental Protection Agency (EPA) guidance for an RAR.

Sections of this RAR are organized as follows:

Section 1.0	Introduction
Section 2.0	Site Background
Section 3.0	Overview of Remedial Action
Section 4.0	Site Preparation
Section 5.0	Analog MEC Removal (Surface and Subsurface)
Section 6.0	Digital Geophysical Mapping
Section 7.0	Quality Control/Quality Assurance (QC/QA)
Section 8.0	MEC and MD Removal
Section 9.0	Munitions Constituents (MC) Characterization
Section 10.0	Environmental Protection
Section 11.0	Protectiveness Assessment
Section 12.0	References

Appendix A	MRS-BLM Unit 5, MEC Remedial Action Technical Memorandum
Appendix B	Draft Final DGM Survey of Vernal Pond 21
Appendix C	Draft Final DGM Survey of Vernal Pond 76
Appendix D	Unit 5 Target Box Filling and Nason Road Erosion Repairs Summary Memorandum
Appendix E	USACE Removal Quality Assurance Documentation
Appendix F	DD Form 1348-1A (MD and Metal Debris Documentation)
Appendix G	Examples of DGM Data Forms
Appendix H	Explosives Accountability Forms
Appendix I	Field Work Variance 001 for Pond 76 DGM
Appendix J	Site Activity Photographs
Appendix K	Response to Comments (RTCs)

1.6 Applicable or Relevant and Appropriate Requirements

Applicable or relevant and appropriate requirements (ARARs) were outlined in the Track 3 ROD (Army, 2008). The performance of this remedial action was in compliance with the ARARs outlined in that document.

2.0 Site Background

2.1 Site Location

Fort Ord is a former military installation that comprises approximately 46 square miles in northwestern Monterey County, California and is located approximately 120 miles south of San Francisco. Monterey Bay forms the western boundary of the former Fort Ord, and the Santa Lucia Range bounds the former Fort Ord to the south. The cities of Marina, Seaside, and Salinas are northwest, southwest, and east of the former Fort Ord, respectively. The Impact Area MRA consists of approximately 6,560 acres in the southwestern portion of the former Fort Ord. Figure 1 provides a regional location map and highlights the location and surrounding areas of Unit 5.

Unit 5 is approximately 130 acres, is located in the south-central section of the Impact Area MRA and falls within the MRS-BLM. Unit 5 is bounded by Darwin Road to the North, Nason Road and Unit 5A to the East, Vulcan Road and Unit 4 to the South, and Unit 7 and Evolution Road to the West (Figure 2). Darwin Road and Evolution Road are regularly maintained fuel breaks. It should be noted that Vulcan Road and Nason Road are not part of the regularly maintained fuel break system. The topography of the unit is similar to the majority of the central and western portions of the Impact Area, which consists of gently rolling hills and, with the exception of localized areas within the unit, absent of rugged terrain that is characteristic of the eastern portion of the MRA.

The area's climate is characterized by warm, dry summers and cool, rainy winters. The Pacific Ocean is the principal influence on the climate at the former Fort Ord, and the source of fog and onshore winds that moderate temperature extremes. Daily ambient air temperatures typically range from 40 to 70 degrees Fahrenheit (F), but temperatures in the low 100s have occurred. Winds are generally from the west. Thick fog (marine layer) is common in the morning throughout the year and in the afternoons in summer. The average annual rainfall of 18 inches occurs almost entirely between November and April. Because the predominant soil is permeable sand, runoff is limited, and streamflow occurs only intermittently and within the very steep canyons in the eastern portion of the Impact Area.

2.2 *Population, Proximity, and Access*

The project area is within the Impact Area MRA, which is currently enclosed by a four- strand barbed wire fence with concertina wire along critical locations. Access is restricted to authorized personnel only. The project area is located on land that is planned to be transferred to the BLM. Danger signs are posted at the perimeters of the Impact Area MRA. Existing access deterrents, such as fencing posted with warning signs approximately every 200 meters (or more frequent) along the fencing, discourage, but do not prevent, entry into the area. In addition, "No Trespassing" signs have been placed at intervals of 91 meters (300 feet) or less along the fence line. Personnel from the Fort Ord Base Realignment and Closure (BRAC) office and BLM routinely check the Impact Area MRA fences to ensure that they remain in good condition and to identify/complete needed repairs in a timely manner. The fences are maintained through a services support agreement with the BLM. Potential exposure to MEC by unauthorized persons could occur through intentional trespassing incidents. A *Munitions Response Site (MRS) Security Program Former Fort Ord, California* (Army, 2020) to mitigate such incidents is currently being implemented by the Army.

2.3 Reuse

The project area is currently designated for transfer to BLM as habitat reserve under the HMP (USACE, 1997) which describes special land restrictions and habitat management requirements within habitat reserve areas. Habitat reserve areas support special-status plant and animal species that require implementation of mitigation measures Army cleanup activities identified in the HMP (USACE, 1997) to ensure compliance with the Endangered Species Act and to minimize potential adverse impacts to listed species during Army cleanup activities. Based on information provided by BLM, the reuse of the area as a habitat reserve is anticipated to include a variety of activities including:

- Road and trail management and maintenance
- Habitat enhancement, including prescribed burning
- Fuel break management
- Use of administrative areas
- Habitat monitoring and educational programs
- Species-specific monitoring and habitat enhancement
- Recreational access on established routes

2.3.1 Vegetation and Habitat Type

Central maritime chaparral (CMC) is the dominant habitat type within the project area. CMC is a dominant habitat type at Fort Ord and is identified as a protected plant community in the HMP (USACE, 1997). Other habitats present include limited areas of coast live oak woodland, coastal scrub, and two vernal ponds (Ponds 21 and 76).

The dominant shrub species observed within the project area during the baseline monitoring include shaggy-barked manzanita (*Arctostaphylos tomentosa* ssp. *tomentosa*), chamise (*Adenostoma fasciculata*), Monterey ceanothus (*Ceanothus rigidus*), sandmat manzanita (*A. pumila*), poison oak (*Toxicodendron diversilobum*), and black sage (*Salvia mellifera*) (Burleson Consulting, Inc., 2016). These shrub species contribute most of the overall vegetative cover within the project area. HMP-listed shrub species present include toro manzanita (*A. montereyensis*), Hooker's manzanita (*A. hookeri*), sandmat manzanita, Monterey ceanothus, and Eastwood's goldenbush (*Ericameria fasciculata*). Baseline studies conducted in 2015 identified the presence of one HMP annual plant species, Monterey spineflower (*Chorizanthe pungens* var.

pungens) (Burleson Consulting, Inc., 2016). In addition, Yadon's piperia was identified within the site in 2010 and 2013 along the fuel breaks on Darwin and Evolution Roads. No other HMP annual species were identified within Unit 5.

The habitats within Unit 5 also support special-status wildlife species identified in the HMP. Any areas with sandy soils may provide suitable habitat for California (black) legless lizard (*Anniella pulchra* [*nigra*]). Pond 21 has been documented to support California tiger salamander (CTS; *Ambystoma californiense*) breeding (Burleson Consulting, Inc., 2020; Harris Environmental, Inc. and Terracon Consultants, Inc., 2024). Suitable breeding habitat may also be present in Pond 76, and upland and dispersal habitat is present throughout the project area.

Chapter 3 of the HMP (USACE, 1997) describes mitigation measures that must be implemented during munitions response investigation and remediation. In addition to the HMP, base closure and reuse activities conducted at the former Fort Ord are required to follow specific protocols approved by the U.S. Fish and Wildlife Service (USFWS) as detailed in the *Reinitiation of Formal Consultation for Cleanup and Property Transfer Actions Conducted at the Former Fort Ord* (Programmatic Biological Opinion [PBO]; USFWS, 2017) and *Changes to Vegetation Clearance Activities Under the Programmatic Biological Opinion for Cleanup and Property Transfer Actions Conducted at Former Fort Ord, Monterey County, California* (USFWS, 2019). The PBO contains additional conservation measures and recommendations relating to environmental remediation at former Fort Ord cleanup sites, which are described in further detail in Section 10.0 of this RAR. Habitat management activities related to the munitions remedial actions that are required by the HMP and PBOs have been conducted for this unit. These are also described in further detail in Section 10.0 of this RAR.

2.4 Regulatory Status

Since 1917 until base closure in 1994, Fort Ord primarily served as a training and staging facility for infantry troops. From 1947 to 1974, Fort Ord was a basic training center. The 7th Infantry Division was activated at Fort Ord on October 21, 1974, and was based at Fort Ord until base closure. Fort Ord was selected for closure in 1991. Many of the soldiers were reassigned to other Army posts in 1993. There is no longer an active Army division stationed at the former Fort Ord.

Fort Ord was placed on the National Priorities List of Superfund sites by the EPA on February 21, 1990, due to evidence of contaminated soil and groundwater. A Federal Facility Agreement (FFA) was signed by the Army, EPA, Department of Toxic Substances Control (DTSC), and the Regional Water Quality Control Board, a part of the California EPA. The FFA established procedures and schedules for conducting remedial

investigations (RIs) and feasibility studies (FSs) and requires remedial actions be completed as expeditiously as possible. The former Fort Ord was selected in 1991 for BRAC, and the base was officially closed in September 1994. The Army began investigating and removing MEC at the former Fort Ord after the BRAC listing. A munitions response (MR) RI/FS began in 1998. In April 2000, an agreement was signed between the Army, EPA, and DTSC to evaluate MEC at the former Fort Ord subject to the provisions of the FFA.

Following completion of the *Track 3 Impact Area MRA Munitions Response Remedial Investigation/Feasibility Study, Former Fort Ord, California* (MACTEC, 2007), the Army prepared the Track 3 ROD (Army, 2008), which is the decision document presenting the selected remedial action for MEC in the Impact Area MRA. The remedy was selected following a 60-day public comment period that ended on August 27, 2007, for the *Superfund Proposed Plan Remedial Action is Proposed for Impact Area Munitions Response Area, Track 3 Munitions Response Remedial Investigation / Feasibility Study, Former Fort Ord, California* (Army, 2007). The remedy was selected in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), as amended by the Superfund Amendments and Reauthorization Act of 1986, and, to the extent practicable, the National Oil and Hazardous Substances Pollution Contingency Plan.

The decision documented in the Track 3 ROD (Army, 2008) is undertaken pursuant to the President's authority under CERCLA Section 104, as delegated to the Army in accordance with Executive Order 12580, and in compliance with the process set out in CERCLA Section 120. The selection of the remedy is authorized pursuant to CERCLA Section 104, and the selected remedy is being carried out in accordance with CERCLA Section 121. The Army and the EPA jointly selected the remedy. The California EPA, as represented by the DTSC, had an opportunity to review and comment on the Track 3 ROD (Army, 2008). The selected remedy and remedial action objectives are discussed in Section 3.1.

2.5 Site Features and History of Military Munitions Use

Since 1917 until base closure in 1994, portions of former Fort Ord were used by cavalry, field artillery, and infantry units for maneuvers, target ranges, and other purposes. Military munitions were fired and used on the facility, including artillery and mortar projectiles, rockets and guided missiles, rifle and hand grenades, practice land mines, pyrotechnics, bombs, and demolition materials.

Fort Ord was selected in 1991 for decommissioning, but troop reallocation was not completed until 1993, and the base was not officially closed until September 1994. The property to be retained in the Army's possession was designated as the Presidio of Monterey Annex on October 1, 1994, and subsequently

renamed the Ord Military Community. Although Army personnel still utilize parts of the base, no active Army division is stationed at the former Fort Ord. Since the base was selected in 1991 for BRAC, site visits, historical and archival investigations, military munitions sampling, and removal actions have been performed and documented in preparation for transfer and reuse of the former Fort Ord property. The Army currently retains the Ord Military Community, and the U.S. Army Reserve Center located at the former Fort Ord. The remainder of Fort Ord was identified for transfer to federal, state, and local government agencies and other organizations and, since base closure in September 1994, has been subjected to the reuse process.

The Impact Area MRA is a complex of numerous former military ranges with a variety of historical uses, designs, and characteristics. Over the years, various types of munitions have been used during training activities within the Impact Area MRA including artillery and mortar projectiles, rockets and guided missiles, rifle and hand grenades, practice land mines, pyrotechnics, bombs, and demolition materials. Select ranges were used for small arms training activities only, while other ranges are characterized as multi-use. In general, the firing points of the ranges were located near the perimeter of the historical Impact Area, and firing was directed toward the interior portion of the range complex. Training activities at the Impact Area MRA ceased after the closure of Fort Ord in 1994. The former ranges within the MRA contain expended munitions and MEC. The Impact Area MRA is fenced, warning signs are posted, and access is controlled by the Army. The perimeter of the Impact Area MRA is patrolled to detect and deter trespassing.

Several former ranges were identified in the Addendum to Final Work Plan (KEMRON, 2022a) to be at least partially contained within the project area. Table 2 provides a list of former ranges which overlap with the project area.

2.6 *Summary of MEC-Related Activities and Data Collected Prior to the Remedial Action*

Previous munitions responses completed within Unit 5 prior to the implementation of the Track 3 ROD (Army, 2008) includes the following:

- 1997 - Subsurface Removal (to 4 ft) on Forrestal Road (0.4 acres) and Vulcan Road (0.29 acres). One MEC item removed from Vulcan Road. (USA, 2001)

- 1998 - 100’ Grid Sampling, 0.23 acres. One MEC item removed (USA, 2000).

The 2 UXO items found during this work can be found on Table 5 and are shown on Figure 4. A summary of these previous munition responses in addition to remedial actions, can be found in Table 3 and are shown on Figure 3.

3.0 Overview of Remedial Action

3.1 Remedial Action Objectives

The remedial action objective (RAO) for the Track 3 remedy is to protect human health and the environment in a manner that complies with the ARARs. The RAO will be achieved by implementing the selected remedy of Technology-Aided Surface MEC Remediation, with Subsurface MEC Remediation in Selected Areas and Land Use Controls (LUCs). The selected remedy is designed to achieve both substantial risk reduction through MEC remediation and risk management through implementation of LUCs. The selected remedy will best balance the risk reduction and associated environmental impacts in supporting the anticipated future use of the site as a habitat reserve. The presence of MEC in the Impact Area MRA was not identified as a concern in terms of explosives safety risks to ecological receptors.

Further statements regarding the RAOs are provided in the Final RD/RA Work Plan (USACE, 2009):

- "The selected remedy addresses current or potential explosives safety risks to human health and the environment from MEC within the Impact Area MRA."
- "The most significant short-term objective is to remove surface MEC and prevent public access until MEC removal is completed."
- "The long-term objective is to make the property safe for required habitat management activities by supplementing the remedial action with appropriate institutional controls … that will effectively manage risk from any potentially residual MEC after the remedial action is completed."

The selected remedy for the Impact Area MRA identified in the Track 3 ROD (Army, 2008) includes the following components:

- Clearing of vegetation, primarily by planned prescribed burning, to provide access for MEC remediation.

- Technology-aided surface MEC removal. The method consists of a technology-aided visual search to identify MEC at the ground surface. Technology aids include Schonstedt magnetometers to facilitate detection of surface MEC in areas where the ground surface is not visible. Recovered MEC would be detonated, using engineering controls.

- DGM to provide a record of anomalies to assist future property users in identifying areas where explosives safety support (e.g., onsite construction support) may be required for activities involving ground disturbance or intrusive work.

- Subsurface MEC removal in selected areas. Areas of subsurface removal include regularly maintained fuel breaks and access roads, a minimum 100-foot buffer area between habitat and development areas, and other areas to address specific risk and/or land use needs. Examples include proposed future habitat restoration sites and areas where there exists a high density of anomalies associated with impact areas where military munitions with sensitive fuzes were fired. Recovered MEC would be detonated, using engineering controls.

- Implementation of LUCs, including munitions recognition and safety training, construction support for ground disturbing or intrusive activities and UXO-qualified personnel support, access management measures including regular security patrols of the Impact Area MRA perimeter and maintenance of fences and signs, helicopter support for future prescribed burns in selected areas for future habitat management purposes, weed abatement support, and property transfer documentation that outlines land use restrictions, including prohibition of unrestricted land use.

3.2 MEC Remedial Action

3.2.1 Remedial Action Chronology

Following the signature of the Track 3 ROD (Army, 2008), the following work activities occurred within Unit 5:

- 2009 – Final RD/RA Work Plan (USACE, 2009)

- 2010 – DGM and DGM dig (subsurface MEC removal) at HA-29 (Gilbane, 2014)

- 2013 – Surface MEC removal and DGM in the southwest corner of the unit in support of prescribed burn for Units 7 and 10 (Gilbane, 2015).

- 2020 – DGM of Pond 21 (USACE, 2021).

- 11/05/21 – 12/21/21: Vegetation clearance within the unit
- 04/2022: Addendum to Final Work Plan MRS-BLM Units 1-5 (KEMRON, 2022a)
- 07/18/22 – 09/22/22: Technology-aided surface MEC removal
- 09/19/22 – 09/21/22: Subsurface MEC Removal in Pond 21
- 09/12/22 – 11/23/22: DGM survey of unit
- 05/2023: Completion of the Unit 5 Technical Memorandum (KEMRON, 2023b)
- 09/13/23: DGM survey of Pond 76
- 11/13/23: Subsurface MEC Removal in Pond 76
- 06/18/24 – 06/28/24: Risk reduction target investigation
- 07/02/24 – 07/12/24: Large data gap/risk reduction investigation
- 07/12/24 – 07/18/24: Target box filling and Nason Road erosion repair

Soil remediation in HA-29 was conducted in 2009-2010 under the Site 39 ROD Amendment (Army, 2009). Post-remediation subsurface MEC removal at HA 29 was conducted in 2010 by DGM and reacquiring/investigating DGM target anomalies and reported in Site 39 habitat area RACR (Gilbane, 2014).

Unit 5 was initially included in Final Work Plan MRS-BLM Units 1-5 Munitions and Explosives of Concern Remedial Action Former Fort Ord, California [Units 1-5 Final Work Plan] (Shaw, 2008), which addressed five units. Remedial Action in approximately 3.9 acres in the southwestern portion of Unit 5 was completed in 2013 to support planned prescribed burns in Units 7 and 10 (Gilbane, 2015). The Addendum to Final Work Plan (KEMRON, 2022a) was developed in 2022 incorporating updated procedures that will be utilized for the remainder of Unit 5 RA. After the Technical Memorandum was submitted, Subsurface Risk Reduction Additional Anomaly Investigation Work Plan (KEMRON, 2024) was developed to support the risk reduction anomaly investigation. Table 1 provides a summary of major events associated with the remedial action within the project area.

3.2.2 *Variations from the Site-Specific Work Plan*

There was one field work variance (FWV) issued to the planned methods and areas described in the Addendum to the Final Work Plan (KEMRON, 2022a). This FWV addressed the addition of the anomaly investigations in Pond 76. Due to standing water conditions in Pond 76 for an extended period of time, the DGM survey of Pond 76 was not able to be completed by USACE until September 2023. The FWV proposed that the anomalies within the footprint of Pond 76 were to be removed to allow safe access for future biological surveys and to complete the remedial action in the unit. The work under this FWV was performed on November 13, 2023 (the subsurface/intrusive investigation of 7 anomalies selected from the DGM survey of Pond 76) and is described in Section 6.3.3. This FWV (Field Work Variance No. 001) is presented as Appendix I.

3.2.3 *Summary of Remedial Action Methods*

Vegetation clearance within the Unit 5 footprint (Figure 5) was started in November 2021 and was completed in December 2021. Mechanical mastication was used as the primary vegetation removal method in the Unit 5 footprint. Manual mastication was performed on the pond buffers and on oak trees within Unit 5. Remedial action in approximately 3.9 acres in the western portion of Unit 5 was completed in 2013 as part of support of planned prescribed burns in Units 7 and 10. The same methods of vegetation removal were implemented for this portion of the unit.

Technology-aided surface MEC removal within Unit 5 was first performed in the SW corner of the unit in 2013 to support planned prescribed burns in Units 7 and 10. Technology-aided surface MEC removal was started in the rest of the unit in July 2022 and was completed in September 2022. Lanes of approximately five feet in width were placed across grids, and Schonstedt magnetometers were employed by MEC surface removal team personnel. Figures 3 and 5 show the extent of surface MEC removal performed within the project area during the different phases of work.

DGM performed during the remedial action and conducted under the *Addendum to the Final Work Plan* (KEMRON, 2022a) from September through November 2022, included approximately 127 acres of the unit. Data collection was mainly completed with vehicle-towed EM61-MK2A arrays. Data collection within the vernal ponds was performed by USACE using a person-portable single EM61-MK2A. The DGM surveys occurred from November 18th through the 19th, 2020, and DGM in Pond 76 occurred on September 13th, 2020. Figure 8 provides the contour map of the final, processed DGM data collected in Unit 5. The reports presenting the results of the DGM in the vernal ponds can be found in Appendix B (for Pond 21) and Appendix C (for Pond 76). DGM performed in the SW corner of the unit was performed by Shaw in

2013, using EM61-MK2A towed arrays. Results for this work can be found in the *Units 7, 10, and 33 MEC Remedial Action, Technical Memorandum* (Gilbane, 2015).

Subsurface MEC removal was performed in Pond 21, Pond 76, Risk Reduction Investigation, and Large Data Gap Risk Reduction. In Pond 21, Pond 76, and Risk Reduction investigation, targets were reacquired using EM61-MK2A, and UXO personnel intrusively investigated these locations. For the large data gap investigation, the EM61-MK2A was used in analog (real-time) mode to detect anomalies, and UXO personnel intrusive investigated them. Further details are discussed in Section 6.

4.0 Site Preparation

4.1 Vegetation Clearance

Vegetation clearance occurred in Unit 5 from November through December 2021 (Figure 5). No vegetation removal was required in areas where previous remedial work was performed (southwest corner of unit, HA-29, etc.). A total of 122.8 acres were cut in Unit 5. The majority of this vegetation clearance was accomplished via mechanical mastication, 119.4 acres, while the vegetation surrounding vernal ponds, and trees were completed via manual mastication (hand cutting), totaling 3.4 acres. Many trees required "limbing", which is manually removing limbs and branches up to 8 feet above the ground, to provide safe clearance for teams performing future work in the area. The areas around the ponds and sensitive habitat areas were identified and flagged by the Project Biologist prior to the start of field activities. The mechanical mastication was performed by Woolery Timber Management, and the manual mastication was completed by High Sierra Fire. Biological monitoring support was provided by Denise Duffy & Associates.

Manual tools (e.g., chain saws and trimmers) were used in areas where the mechanical cutter could not gain access and to trim tree branches. Manually cut vegetation was chipped and stored at a designated area south of HA-29. In 2024, as part of the risk reduction intrusive investigation activities, limited amount of manual vegetation cutting was performed in the data gap areas and to limb up trees to 6 feet above ground for access for the field teams (this vegetation was left within the unit). Mechanically cut vegetation remained within Unit 5 but was reduced to the maximum extent possible to minimize visual impairment of the surface of the site.

UXO-qualified personnel provided UXO escort support during vegetation clearance, conducting a visual survey of the ground surface with the aid of Schonstedt magnetometers. When MD or suspected MEC was encountered, vegetation clearance personnel would stop operations until UXO-qualified personnel could

determine if any hazard was associated with the item and remove the item, if necessary. On November 19, 2021, during mechanical mastication, the unexploded ordnance (UXO) escort encountered a material potentially presenting an explosive hazard (MPPEH) item which was later determined by UXO qualified personnel to be MEC after a later consolidated detonation (Projectile, 8-inch, high explosive, M106 Series). The item location was recorded, and then the item was relocated to the ESL.

4.2 Debris and Target Removal

During and after vegetation clearance activities, targets and other range-related debris (RRD) were removed from the project area. Quantity of recovered RRD was recorded on a per grid basis. Metal debris was recycled at a local recycler, and other debris was disposed of at a local municipal landfill. MD was inspected and prepared for shipment on 7/19/2024 and 7/22/2024. On 7/29/2024, the certified material documented as safe (MDAS) was picked up and transported to DEMIL Metals/AAR in Ford Heights, Illinois, for processing. The form related to the disposal of metal debris (DD Form 1348-1A) is presented as Appendix F.

4.3 Grid System Staking

From December 13 through 22, 2022, UXO personnel (performing anomaly avoidance) established a 100-foot by 100-foot grid system across the project area. The grid system was tied into the Fort Ord Master Grid System. The outside grid boundaries and grid nodes were marked with wooden stakes, each labeled with a unique identification marked on the southwestern corner stake. Grid staking was also performed in June 2024, prior to the large data gap intrusive investigation. The grid system for Unit 5 is depicted on Figure 3 and is shown as “Surface MEC removal”.

5.0 Analog MEC Removal

Analog methods were used for MEC removal within the project area. Tables 5 lists the MEC items recovered during analog MEC removal. These tables include items removed during analog surface removal throughout Unit 5 and during limited subsurface MEC removal.

5.1 Technology-Aided Surface MEC Removal

Except for areas previously cleared to support planned prescribed burns in Units 7 and 10 (2013), technology-aided surface MEC removal within Unit 5 was performed from July 18 through December 22, 2022. The objective of the surface MEC removal was twofold: 1) to remove surface MEC to meet the

selected remedial alternative of the Track 3 ROD (Army, 2008), and 2) to remove metallic debris including MEC, MD, and other debris which could impact the DGM survey results.

During technology-aided surface MEC removal, UXO teams utilized Schonstedt magnetometers in addition to visual survey for MEC. UXO personnel walked in 5-foot-wide parallel lanes across the removal grid to achieve complete Schonstedt and visual coverage. In general, metallic debris greater than 2 inches in any dimension identified on the ground surface was removed from the project area. Material Potentially Presenting an Explosive Hazard (MPPEH) and MEC were treated in accordance with standard operating procedures. The easting and northing coordinates for the location of each MPPEH item encountered within the 100-foot grid system are determined by calculating the position of that item relative to the known previously surveyed (with RTK GPS) southwest corner grid point. The final coordinates are entered into the database as the official X/Y (northing and easting) values, using the California State Plane (Zone IV) projected coordinate system using the North American Datum (NAD) of 1983. The location coordinates of MEC items found in a grid not based on the site-wide 100-foot grid system, for example a pond or data gap grid, are collected using a RTK GPS unit. MD was tracked by weight on a grid-by-grid basis.

A total of 27 MEC items (out of 31) were found during the remedial action surface MEC removal - 4 MEC items were removed in the SW corner of the unit (2013), one item was found by a UXO escort during vegetation removal (2021), and 22 items were found during the surface MEC removal in 2022. MEC items removed as part of these operations are summarized in Table 5.

5.2 *Analog Subsurface MEC Removal*

Subsurface MEC removal within Unit 5 was conducted in areas shown on Figure 3.

Risk reduction/large data gap intrusive investigations were performed in 2024, using an EM61-MK2A in analog mode. One MEC item was found during the risk reduction intrusive investigation (Projectile, 75mm, high explosive, M48). Refer to Section 6.3 for further discussion.

6.0 *Digital Geophysical Mapping*

DGM data acquisition, processing, analysis, and preparation of data deliverables were completed in accordance with the Final, Quality Assurance Project Plan, Former Fort Ord, California, Volume II, Appendix A, Munitions and Explosives of Concern Remedial Action (QAPP; KEMRON, 2016). DGM data quality was verified against measurement quality objectives detailed in the QAPP. Measurement quality objectives were met, and QC/QA processes were implemented in accordance with the Final SSWP

(KEMRON, 2022a). Data gaps visible on Figure 8 are the result of obstacles preventing access to DGM surveys, such as gullies, berms, and individual trees or stands of oak trees. DGM was collected in the main portion of the unit in 2022 by KEMRON, and in the SW corner of the unit by Shaw/Gilbane. HA-29 DGM was performed in 2010 by Shaw. For Ponds 21 and 76, DGM was manually collected by USACE in 2020 and 2023, respectively.

6.1 *DGM Surveys*

DGM surveys were used as the primary method to record the presence of subsurface anomalies and were performed in accordance with the Addendum to Final Work Plan (KEMRON, 2022a).

DGM during Remedial Action (2022)

The DGM survey for the Unit 5 remedial action was conducted with a vehicle-towed EM61-MK2A array starting on September 12, 2022, and was completed on November 23, 2022. DGM was performed for all of Unit 5 except for areas previously completed (southwest corner of unit and HA-29), Ponds 21 and 76, and those areas where large permanent obstacles precluded access to the towed array. A total of 123.7 acres were surveyed. DGM was also completed on Forrestal Road, Vulcan Road (portions where the unit boundary intersected the road), and the area of the former 100’ x 100’ sampling grid. Figure 8 provides an image of the final geophysical data. Additional details of the Unit 5 DGM surveys can be found in the Unit 5 TM (KEMRON, 2023).

Pond 21

Pond 21 is in the north-central portion of Unit 5 and is approximately 1.88 acres. The DGM survey of Pond 21 was performed by USACE on November 18-19, 2020, with a person-portable single-coil EM61-MK2A, and the surveyed area totaled approximately 0.85 acres (due to dense vegetation). A total of 80 targets were detected using a target selection threshold of 14 mV (summed channels 1-4). The results of this survey can be found in the *Final DGM Survey of Vernal Pond 21at Former Fort Ord, Monterey, California* (USACE, 2021) which is presented as Appendix B.

Pond 76

Pond 76 is located within the southeastern portion of Unit 5 and is approximately 0.13 acres. The DGM for Pond 76 was performed by USACE on September 13, 2023, and the surveys were done with a person-portable single-coil EM61-MK2A. A total of 7 targets were detected in Vernal Pond 76 using a target selection threshold of 14 mV (summed channels 1-4). The DGM survey results can be found in the *Final*

DGM Survey of Vernal Pond 76, at Former Fort Ord, Monterey, California (USACE, 2024), which is presented in Appendix C.

HA-29

HA 29 is located north of South Boundary Road in the southern portion of Unit 5 and is approximately 2.9 acres (clarify site size vs remediation size). Soil remediation was performed under the Site 39 ROD and was completed in 2010. Upon completion of the soil remediation, a DGM survey was conducted with a vehicle-towed array, consisting of three EM61 MK2 sensors, as well as person-portable single-coil EM61 MK2 units. Both the array and single-coil units used real-time kinematic (RTK) GPS for positioning of the geophysical sensor measurements. The instrument threshold value of 14 millivolts (summed channels 1-4 response) was used. The DGM survey identified 103 targets for intrusive investigation by the UXO Team. The MEC removal action recovered approximately 57 pounds of MD and 5,736 pounds of range-related debris at HA 29, and 13 pounds of range-related debris at the HA 29 stockpile. No MEC items were encountered. Results of the post-remediation DGM survey for HA 29 can be found in the *Final Remedial Action Completion Report Site 39 Inland Ranges Habitat Reserve, Former Fort Ord, California,* (Gilbane, 2014).

6.1.1 *Instrumentation*

As described in previous sections, EM61-MK2A sensors (towed array and single units) were utilized to obtain DGM data within Unit 5. A Leica RTK global positioning system (GPS) was used in conjunction with the EM61-MK2A sensors for navigation data.

6.1.1.1 *EM61-MK2A*

The EM61-MK2A is a four-channel, high-sensitivity time domain electro-magnetic sensor designed to detect shallow ferrous and nonferrous metallic objects with good spatial resolution and minimal interference from adjacent metallic features. The EM61-MK2A has two rectangular (1 x 0.5 meters) source/receiver coils vertically stacked 40 centimeters (cm) apart. A square wave electro-magnetic pulse is generated during "time on" (positive and negative) and "time off" cycles. This induces eddy currents in subsurface metallic objects and produces an associated secondary magnetic field. The decay of the secondary magnetic fields is measured during "time off" cycles and stored as a millivolt response. During this project, data were recorded at four time gates from the bottom coil. The responses at these four specified time gates are recorded and displayed by an integrated system data logger.

6.1.1.2 *Leica GPS*

RTK GPS requires known coordinates to establish a base station. Once the base station is established, it determines its location using satellites and applies a correction based on the offset from the known coordinates. The correction is broadcast to a rover that is in direct communication with the base station through a radio link. RTK GPS is capable of survey-grade measurements in real time and providing immediate accuracy within 1 to 4 cm. A permanent base station located within Range 32 on Wildcat Ridge was used for the project area operations.

6.1.2 *Data Collection Procedures*

EM61-MK2A surveys in Unit 5 utilized the four, time gate readings from the bottom coil. Readings were sampled at a minimum rate of 10 readings per second. GPS readings were logged at a rate of 1 reading per second. All data collection activities were recorded in personal digital assistants and were synchronized into the project database. Field notes were monitored by data processors and the QC Geophysicist, and they are included in the data delivery forms. As discussed above, a combination of two different data collection modes were employed at the project area using the EM61-MK2A. These include the towed array and person-portable single-coil systems.

6.1.2.1 *Towed Array*

The towed array system consisted of three EM61-MK2A coils mounted on a wheeled platform. The three units were mounted in parallel, overlapping configuration with the long axis perpendicular to the direction of travel. The arrangement of the three coils resulted in a center-to-center coil spacing of two feet. The wheeled platform was constructed such that the bottoms of the coils were set at the standard Geonics height of 42 cm above the ground. The wheeled platform was pulled with a bulldozer. The EM61-MK2A and GPS data were streamed together and recorded using Geonics Multi61MK2 software. Data collection on the towed array was controlled remotely by a wireless transmitter from a remote computer. This allowed the bulldozer driver to concentrate on coverage. The remote computer was operated by a field geophysicist. The remote computer controlled the functions of the field computer mounted to the towed array system. The remote computer operator monitored the data collection.

6.1.2.2 *Single Unit/Manual*

A single EM61-MK2A unit, mounted on manufacturer-supplied wheels and hand towed was used to collect DGM data within vernal Ponds 21 and 76. RTK GPS was used for navigation and data were recorded using a standard field data logger. These data were then appended to the appropriate dataset to fulfill the measurement quality objective (MQO) requirements.

6.1.2.3 *Daily Functional QC Checks*

To ensure the instruments met project QC requirements, tests were performed daily. As described in project quality control documents, the following instrument tests were performed:

- Static Background Test
- Static Spike Test
- Personnel Test
- Cable Shake Test
- Static GPS Location Test
- Dynamic Response Test
- Dynamic Positioning Test

On days that the instruments were in use, QC tests were performed at the beginning and the end of each day. If the instruments did not meet QC standards, the field crew would resolve the issue before commencing with the survey. If the instrument was deemed faulty at the end of the day, QC Geophysicists were notified, and proper steps were taken to verify survey data met QC standards.

6.1.3 *Data Processing*

Geophysical data were processed using Geosoft's Oasis Montaj and vendor-supplied software. Oasis Montaj processing included several steps:

1. Transforming raw data to American Standard Code for Information Interchange (ASCII) xyz files: Using vendor-supplied software, data were converted from the native file format to ASCII data files suitable for import into Oasis Montaj.

2. Initial data review: Once raw xyz files were imported into Oasis Montaj, the coordinates were converted to the project coordinate system. Data coverage and quality were assessed by the data processors. If it was determined that data quality and coverage were acceptable, then the data proceeded to the next step. If coverage and/or data quality objectives were not met, then field teams were sent to either fill in data gaps or re-collect data where necessary.

3. Correcting for instrument latency: Using the results of the daily IVS test, geophysical data were shifted to account for the time lag inherent in the data logging system.

4. Leveling data: Data were leveled to the same background values removing the effects of instrument drift. The leveled data were added together to create the 4-channel sum.

Data processing procedures remained consistent for the project area. Data processing activities were logged in data processing forms. A detailed description of the processing steps was outlined in the project quality control documents.

6.1.4 *Data Delivery*

Survey data were broken down into separate grids and/or grid blocks prior to delivery. The delivery schedule was consistently met throughout the project. Any exceptions were noted on the processing forms, and the QA Geophysicist was informed. Raw and processed data were submitted as one package. Raw data deliveries included the raw data in binary format, raw data in ASCII xyz format, and the field notes saved in portable document format form. Processed data included the processed data in ASCII xyz format, the final targets list, and the appropriate data processing forms. Examples of the data forms included in the data delivery are contained in Appendix G.

6.2 *Measurement Quality Objectives*

The DGM surveys for the project area were conducted with Category B MQOs based on the post-DGM activities planned for the site.

The following items were monitored throughout the project according to MQOs specified in the Addendum to the Final Work Plan (KEMRON, 2022a):

- Background noise
- Mean speed
- Along track spacing
- Across track spacing
- Instrument latency corrections
- Data leveling
- Systematic noise
- Anomaly selection

- Positioning errors
- Blind seed/QC items

According to the geophysical QC plan, the QC Geophysicist is required to monitor all MQOs. The QC Geophysicist reviewed every grid block. If any aberrations were found within the MQOs, actions were taken to assure the specific metric was corrected before passing the grid block. These actions were documented in weekly QC reports and sent to the USACE QA Geophysicist. During the project surveys, the USACE QA Geophysicist reviewed grids only after they passed geophysical QC. Any comments or concerns were addressed, and issues were resolved between the project Geophysicist and the USACE QA Geophysicist. The *DGM QA Approval and Discussion* is included as Appendix C in the Unit 5 TM (KEMRON, 2023b). The Unit 5 TM is provided in Appendix A.

6.3 *DGM Subsurface MEC Removal*

DGM-based subsurface MEC removal was conducted within Unit 5 in the following areas (see Figure 3):

- HA-29 (2010)
- Pond 21 (2020)
- Pond 76 (2023)
- Risk reduction intrusive investigation, in preparation for a future planned prescribed burn within Unit 5 (2024)
- Large data gap - risk reduction intrusive investigation (2024) (This was done in analog mode, but discussed in this section for convenience)

6.3.1 *HA-29*

In 2010, Shaw conducted a DGM survey and DGM digs after soil remediation in HA-29. 103 targets were successfully reacquired and intrusively investigated, and no MEC was recovered. One DMM item (Cartridge, 40mm, practice, M781) had been recovered during the soil remediation activities. This work is described in the *Final Remedial Action Completion Report, Site 39 Inland Ranges Habitat Reserve* (Gilbane, 2014).

6.3.2 *Pond 21*

A DGM survey was conducted by a USACE geophysicist in November 2020 (Appendix B), to identify anomalies potentially representing MEC items in the subsurface of Pond 21 (USACE, 2021). Subsurface MEC removal in Pond 21 was performed from September 19 through September 21, 2022, utilizing the procedures described in the Addendum to the Final Work Plan (KEMRON, 2022a). Targets were selected from the SUM channel (arithmetic sum of EM61 channels 1-4) with a response threshold of 14 mV. Eighty targets were reacquired and investigated within the 0.85-acre footprint of the pond. After reacquisition, a total of 5 locations required subsurface excavation, ranging in depth from 1-inch to 22-inches, with 0.5 lbs of MD and 0.25 lbs. of "Other-SSA" (small arms, 50cal) recovered. All other targets resulted in a finding of "No Contact" and no excavation was performed at those locations. No MEC was encountered during this work. Refer to Table 6 for investigation results.

6.3.3 *Pond 76*

A DGM survey was conducted by a USACE geophysicist September 13, 2023, to identify anomalies potentially representing MEC items in the subsurface of Pond 76 (Appendix C). Seven anomalies (targets) were identified using a target detection threshold of 14 mV (arithmetic sum of EM61 channels 1-4). The subsurface investigation of these anomalies occurred on November 13, 2023, and the total area of the investigation was 0.13 acres. The intrusive investigation procedures for Pond 76 were the same as those used in Pond 21. A total of 2.5 lbs. of MD were removed, and no MEC was encountered during the investigation. Refer to Table 7 for investigation results.

6.3.4 *Risk Reduction*

Risk Reduction Anomaly Investigation/Subsurface MEC Removal was identified in the Unit 5 TM (KEMRON, 2023b) as additional work to be completed in Unit 5. The work was performed from June 18 through June 28, 2024, with the intent to reduce the risk of unintentional detonation of subsurface anomalies during future prescribed burn activities. This was done within the footprint of Unit 5 and was done as a safety measure to protect field personnel during possible future prescribed burns. Pond 21, Pond 76, HA-29, and large data gap areas (described in Section 6.3.5) were not included in this work. The results of the DGM survey and target selection are described in *MRS-BLM Unit 5 MEC Remedial Action DGM Data Assessment and Anomaly List Development*, which is included as Appendix E to the Unit 5 TM (KEMRON, 2023b). The results of the risk reduction intrusive investigation are shown on Figure 9 and listed in Table 8.

Targets for the subsurface MEC removal were selected from the final Channel 3 gridded data. For previous units in which large munitions risk reduction was performed, two different target selection thresholds were used. In the outer zones (areas closest to the unit boundaries and typically prescribed burn containment lines), a threshold of 114 mV was used which corresponds to the response of a horizontal 155mm projectile two feet below the ground surface. In the inner zones, a 446-mV threshold was used which corresponds to the response of a horizontal 155mm projectile one foot below the ground surface. No differentiation was made between inner and outer zones of Unit 5. Risk reduction activities were conducted to the more conservative depth of two feet below ground surface throughout Unit 5. Due to the limited number of large subsurface anomalies in Unit 5, no AGC survey was performed. A total of 95 subsurface anomalies that met the EM61-MK2 anomaly response characteristics of a 155mm projectile or larger munitions item within two feet below ground surface (i.e., an EM61-MK2 channel 3 response amplitude greater than 114 mV) were intrusively investigated and removed. One MEC item (Projectile, 75mm, HE, M48) was encountered and removed on June 19, 2024, at a depth of 10-inches (Figure 6 and 9).

6.3.5 *Risk Reduction - Large Data Gap Investigation*

As part of the Risk Reduction work under the Subsurface Risk Reduction Anomaly Investigation Work Plan, MRS-BLM Unit 5, the DGM large data gap areas were intrusively investigated from July 2 through July 12, 2024. The total area investigated was 3.55 acres, and no MEC items were identified. To reduce the risk in the remaining large data gap areas of unintentional detonation of subsurface anomalies during future prescribed burn activities, analog subsurface removal was completed in the areas shown on Figure 10. The large data gap areas were investigated utilizing a single EM61-MK2A unit in analog mode. The UXO team utilized a Leica GPS to locate the boundaries of each selected data gap. The EM61-MK2 was then maneuvered across each gap in a series of parallel, overlapping transects while monitoring the data logger for anomalies consistent with the response of a 155mm projectile up to two feet below the ground surface (114 mV in Channel 3). Section 6.3.4 provides a more detailed discussion of how this threshold was selected. If such an anomaly was detected, the UXO team temporarily marked the location and hand-excavated adjacent to the anomaly until the source was revealed. The team documented each data gap area in the project database in accordance with Section 8 of the MEC QAPP (KEMRON, 2016) UXO SOP 3. Results of the large data gap intrusive investigation are shown on Figure 10 and listed in Table 9.

6.3.6 *Unit 5 Target Box Filling and Nason Road Erosion Repairs*

As a result of the Joint Army-Bureau of Land Management (BLM) inspection of Unit 5 after surface MEC removal and DGM had been completed in the unit, BLM requested the filling of the target boxes as a safety measure for future BLM teams performing work in the unit. A total of 35 target boxes were filled - 34 in

the eastern/southeastern portion of the unit and one just south of HA-29 at Forestall Road (see Figure 3). A vertical corrugated pipe was also filled as part of the project. Native soil was sourced from a borrow area source in the northern portion of Unit 4, immediately to the south of Unit 5. Erosion repair work was also conducted on a portion of Nason Road on the northeast side of Unit 5 (Figure 3). The details of this work can be found in *Unit 5 Target Box Filling and Nason Road Erosion Repairs Summary Memorandum* (KEMRON, 2024c) presented as Appendix D.

7.0 Quality Control/Quality Assurance (QC/QA)

This section discusses the QC and QA procedures that were used at Unit 5. QC and QA procedures for the approximately 3.9-acre western portion of Unit 5 described above are addressed in the *MRS-BLM Units 7, 10, and 33 MEC Remedial Action Technical Memorandum, Former Fort Ord, California* (Gilbane, 2015). MQOs for DGM data were met for both areas.

7.1 QC

QC is conducted by the Contractor. All QC measures were conducted by the UXOQCS and by the QC Geophysicist. A discussion of the pertinent QC measures and procedures is included in the following sections.

7.1.1 Analog QC

7.1.1.1 Field Activities

During surface MEC removal operations the UXOQCS was responsible for visually observing teams and conducting periodic spot checks to ensure grids were receiving complete coverage. The UXOQCS performed analog QC survey of at least 10% of completed surface MEC removal grids. All grids passed 10% analog QC surveys performed by the UXOQCS.

Blind seeds were emplaced by the UXOQCS before and during technology-aided surface removal field operations. QC seed items were placed such that each team encountered, on average, at least one seed item per day of data collection. Additional details of the QC seed program are referenced in the Addendum to Final Work Plan (KEMRON, 2022a). All surface blind seeds were successfully located by the UXO teams.

QC conducted during the risk reduction - large data gap investigation consisted of the UXOQCS visually observing teams and performing periodic spot checks to ensure the large data gaps to ensure complete coverage. The UXOQCS performed analog QC survey of at least 10% of completed subsurface MEC

removal in the large data gaps. All subsurface MEC removal areas passed 10% analog QC surveys performed by the UXOQCS.

7.1.1.2 Database Activities

The UXOQCS reviewed every entry received from personnel in the field during each phase of work prior to entry in the database. Each entry was reviewed for completion of field QC, MEC and MD nomenclature, completion of a given grid, and ultimate disposition of MEC items.

7.1.2 DGM QC

The DGM QC standards and procedures were outlined in the Addendum to the Final Work Plan (KEMRON, 2022a) and subsequent project quality documents. The QC Geophysicist was responsible for planning and executing QC oversight of geophysical activities and ensuring compliance with geophysical QC requirements. Specifically, the QC Geophysicist was responsible for the following:

- Reviewing and approving the qualifications of geophysical staff,
- Planning and ensuring the acceptable performance and completion of all geophysical QC activities,
- Reviewing the geophysical QC and DGM data, target lists, and dig results as specified in the Addendum to the Final Work Plan (KEMRON, 2022a) and subsequent updates,
- Performing field inspections of at least 10% of all intrusively investigated DGM targets, including risk reduction anomalies, utilizing an EM61MK2 to ensure that the original target sources had been removed,
- Establishing the known and blind seed item and location control program,
- Identifying quality problems and verifying that appropriate corrective actions were implemented for geophysical activities, and
- Ensuring that the requisite geophysical QC records, including submittals, were generated and retained as prescribed.

To keep track of weekly events and statistics, a weekly QC report was delivered to the Project Geophysicist and the QA Geophysicist. This included all pertinent information for the week as well as cumulative information about the project including, but not limited to, information such as grids surveyed, personnel, average acreage per day, and QC blind seeds located.

The QC Geophysicist had daily access to all geophysical QC and DGM data and was on site intermittently as needed after the completion of the initial inspections for geophysical activities. He was also on site as needed for meetings and seeding. The QC Geophysicist provided final QC deliverables to the QA Geophysicist and supported the UXOQCS.

7.2 Quality Assurance

QA is conducted by the USACE Ordnance and Explosive Safety Specialist (OESS) and the USACE QA Geophysicist.

7.2.1 Analog Quality Assurance

USACE Removal Quality Assurance Documentation is provided in Appendix E. The USACE OE Safety Specialist performed in-field QA of the DGM targets and the large data gaps as they were being investigated. For the DGM targets, the anomaly description, investigation dig depth, and final EM61-MK2 mV readings were all verified at the time of investigation. For the large data gaps, the gap coverage, investigation dig depth, and final EM61-MK2 mV readings were all verified at the time of investigation. The Appendix E documents contain the full record of these inspections.

7.2.2 DGM Quality Assurance

The TM for Unit 5 is provided in Appendix A. The *DGM QA Approval and Discussion* is included as an appendix (Appendix C) to the TM for Unit 5. All DGM data for Unit 5 has been reviewed and approved by the USACE QA Geophysicist. For the intrusive investigations of the risk reduction intrusive investigation digs, the targets were Quality Assurance Inspected (QAI) at time of investigation by the onsite USACE OESS. Anomaly description, investigation dig depth and final EM61-MK2 voltage readings (in mV) were all verified by the OESS at the time of investigation.

7.2.3 Corrective Action Requests

During the remedial action field operations, the USACE issued no Corrective Action Requests (CARs).

8.0 MEC and MD Removal

This section provides summaries of the MEC and MD removed from the project area. This section provides information on MEC and MD from all remedial actions in Unit 5.

8.1 Remedial Action

Statistical information for the Unit 5 MEC remedial action was recorded, tracked, and reported by removal grid, individual item, and date. A summary for the remedial action is provided in Table 4.

8.1.1 MEC Removal

A total of 31 MEC items were recovered in Unit 5 (Table 5). As shown on Figure 4, 2 MEC items were found and removed during MEC removal operations prior to remedial action (prior to the Track 3 ROD) - one on Vulcan Road, and one in the 100% sample grid. A total of 29 MEC items were found and removed during the remedial action – one in the HA-29 soil stockpile (originating from HA-29 footprint within Unit 5), 4 found in the SW corner of the unit (2013), one found during vegetation removal (November 2021), 22 found during the 2022 surface MEC removal, and one removed during the risk reduction subsurface investigation in 2024. All items were found on the surface except for the item found during risk reduction subsurface investigation activities, which was found at 10-inches below ground surface.

8.1.2 MD Removal

Recovered MD was characterized by weight on a grid-by-grid basis. Figure 7 summarizes the estimated weight of MD removed from each removal grid. A total estimated quantity of MD removed during the RA can be found in Table 4.

MD and RRD were initially classified as MPPEH. Following initial classification, the MPPEH was certified by the SUXOS, UXOQCS, and USACE OE Safety Specialist as either MDAS or material documented as an explosive hazard (MDEH). All MDEH was detonated as described further in Section 8.1.3. All MDAS was certified free from explosive material and stored in lockable roll-off containers. All MDAS was demilitarized as appropriate. MDAS was inspected, certified and transported to a recycling facility. DD Form 1348-1A documentation accompanied the MDAS. A DD Form 1348-1A for this project is provided in Appendix F.

8.1.3 Detonation of Munitions and Explosives of Concern

During this remedial action, three munitions with sensitive fuzes (Projectile, 40mm, high explosive, M383) were encountered during the 2022 surface clearance, and these items were blown in place (BIP) on 8/4, 8/15, and 8/18/2024. After completion of the surface clearance, the remaining 20 MEC items were destroyed by detonation (consolidation shot) on September 26, 2022. The MEC item (Projectile, 75mm, HE, M48) recovered on June 19, 2024, during the risk reduction investigation, was destroyed by consolidation shot on July 23, 2024.

Explosives Accountability forms with dates of demolition operations are included in Appendix H. All procedures for demolition operations included in the Addendum to Final Work Plan (KEMRON, 2022a). All items were destroyed by detonation, and details, such as the date and result of this operation, have been reported in the Fort Ord Military Munitions Response Program (MMRP) database.

8.1.4 *Disposition of Munitions Debris and Range Related Debris*

The MDAS associated with the Unit 5 remedial action was transported to Demil Metals for smelting and eventual recycling. DD Form 1348-1A documentation accompanied the MDAS. A DD Form 1348-1A for this project is provided in Appendix F. After metallic RRD was certified as safe, it was removed from Unit 5 and recycled.

8.2 *Conceptual Site Model*

The distribution of all MEC items found and removed prior to this remedial action is shown on Figure 4. The distribution of all MEC items found and removed as part of this remedial action is shown on Figure 6. The observed distribution of surface and subsurface MEC throughout the unit is consistent with the expected distribution based on historical information. Ranges either wholly or partially contained within Unit 5 are shown on Figure 2 and listed in Table 2. The MEC items found and removed from Unit 5 included projectiles ranging in size from 37mm to 8-inch, 35mm rocket, projectile fuze, and a practice hand grenade.

These findings indicate that temporary short-term use of these munitions occurred in Unit 5. Based on the Addendum to Final Work Plan (KEMRON, 2022a), sensitive fuze type munitions were expected in Unit 5. During the munitions response described in this RAR, 3 MEC items with sensitive fuzes were encountered and removed. During the surface removal, MD related to sensitive fuze-type munitions was tracked (by grid). However, combined with historical information, they do not indicate the presence of a designated range for munitions with sensitive fuzes. During surface MEC removal operation, MD related to sensitive fuze-type munitions was not encountered. Surface MEC removal and DGM data were evaluated in the Unit 5 TM (KEMRON, 2023b) (Appendix A). Additional subsurface MEC removal was performed following completion of the TM based upon recommendations in that document. This subsurface MEC removal included work performed to prepare Unit 5 for a future prescribed burn.

9.0 *Munitions Constituents (MC) Characterization*

The evaluation of the potential presence of Munitions Constituents in soil within the Impact Area MRA is covered under the Final Record of Decision Amendment, Site 39, Former Fort Ord, California (United

States Department of the Army, 2009). The results of this evaluation for Unit 5 can be found in the Site Evaluation Results, Basewide Range Assessment (BRA) Investigation, Unit 5, Former Fort Ord, California (KEMRON, 2023d). The following sections are presented as a summary of this work.

9.1 Previous Site Characterization

Explosive ordnance target areas located within the Impact Area MRA were sampled as part of the Site 39 RI. Results are presented in the *Final Basewide Remedial Investigation/Feasibility Study Fort Ord, California* [Harding Lawson Associates (HLA), 1995]. Based on the available information at that time, a biased sampling program was developed to focus on the target areas, which were the areas most likely to contain detectable amounts of ordnance-related chemical residues and metals. Soil remediation in specific areas within the Impact Area MRA identified in the Site 39 ROD Amendment occurred with appropriate UXO support as described in the *Final Remedial Action Completion Report Site 39 Inland Ranges Habitat Reserve, former Fort Ord, California* (Gilbane, 2014). In this report, soil remediation of HA-29 within Unit 5 is reported in Appendix I. HA-29 was identified as an area for lead contaminated soil and from 2009-2010, approximately 3,190 cy of soil were excavated from HA 29 from an approximate area of 1.0 acre, with an excavation depth ranging from 1 to 3 feet. Upon completion of soil excavation, soil sampling, excavation of hot spots, and regrading, DGM and subsurface MEC removal was completed on the remediation footprint area.

9.2 Reconnaissance

After the completion of vegetation reduction and surface MEC removal in Unit 5, site reconnaissance took place on October 5, 2022, in accordance with the BRA program protocols that are specified in *Draft Final Basewide Range Assessment Work Plan and Contractor Quality Control Plan Small Arms and Multi-Use Ranges Revision 0* (Harding ESE, 2001). Features mapped and recorded with a GPS as a general field practice across all site reconnaissance areas include targets, berms, craters or mounds, MD, debris, and RRD. The data collected was evaluated to determine location of soil samples required to further characterize an area with possible soil contamination. The results of the site reconnaissance did not indicate the potential for COCs to be present, and therefore soil sampling and analyses for lead and explosives (HMX, RDX, and TNT) were not recommended for Unit 5. Details of the reconnaissance can be found in *Site Evaluation Results, Basewide Range Assessment (BRA) Investigation, Unit 5, Former Fort Ord, California* (KEMRON, 2023d)

9.3 Site Characterization

The conclusion of the BRA states that: "This evaluation concludes that the BRA reconnaissance is sufficient per the Site 39 ROD Amendment (United States Department of the Army, 2009) and no additional site characterization is required." Therefore, no soil samples were collected Unit 5.

9.4 Observations of Evidence of Potential Soil Contamination

Prior to the initiation of field operations, UXO field personnel are trained to recognize and report evidence of potential soil contamination. If any such evidence was encountered within the project area, it would have been noted and incorporated into the BRA evaluation of the unit. The result of this inspection concluded that there was no of evidence of potential soil contamination observed in Unit 5.

10.0 Environmental Protection

10.1 Description of Impacts and Mitigation Measures

The project area is within the Natural Resource Management Area which is designated for transfer to BLM as undeveloped habitat reserve as described in the HMP (USACE, 1997). The HMP describes special land restrictions and habitat management requirements within habitat reserve areas. Habitat reserve areas support plant and animal species protected under the Endangered Species Act; implementation of mitigation measures identified in the HMP are required to minimize potential adverse impacts to listed species. Vegetation in the project area consists primarily of CMC and contains numerous species listed as protected in the HMP. Please refer to Section 2.3.1 for a description of the vegetation and HMP species present within the project area.

Mitigation measures to reduce impacts to protected species during MEC remedial actions are described in the HMP (USACE, 1997) and the PBO (USFWS, 2017). Mitigation and other environmental protection measures that were implemented during this project are summarized below:

- *Minimize Disturbance Associated with MEC Removal:* Disturbances were limited to those required for project activities. As required by the HMP, existing roads were used except for where it was necessary to traverse the site using tracked vehicles to remove vegetation, conduct the DGM portion of the field work, and fill the target boxes. Heavy equipment was prohibited within 50 feet of the vernal ponds and the boundaries of the ponds were staked and flagged prior to initiation of project activities. Heavy equipment was also prohibited within dense oak woodland areas during all project activities. Smaller

equipment (such as a Bobcat) or manual equipment were used to remove vegetation within these areas as necessary, and manual methods were used for DGM within the vernal ponds. Access roads, staging areas, and other appurtenant facilities were sited to avoid impacts to HMP plant and wildlife species. Coast live oak trees (*Quercus agrifolia*) greater than four inches in diameter and large toro manzanitas (individuals 10 feet or taller and shorter individuals with a very wide canopy cover) were avoided during vegetation removal activities. Additionally, removal of smaller coast live oak trees was minimized to the extent feasible. No work activities were permitted within adjacent restoration sites except stockpiling of mulch in an area south of HA-29.

- *Avoid Disturbance of HMP Annual Plant Populations:* High densities of Monterey spineflower were identified within the project site during baseline studies conducted in 2015 (Burleson Consulting, Inc., 2016). In addition, Yadon's piperia was identified within the site in 2010 and 2013 along the fuel breaks on Darwin and Evolution Roads. While project activities were necessary within the HMP annual plant population areas, no equipment or personnel were permitted within these areas from approximately March (approximate time of germination) through June (approximate time of seed-set) for Monterey spineflower, and through approximately September for Yadon's piperia. When feasible, project activities were scheduled to occur in these areas last to allow plants to set seed. These areas were also avoided when siting staging areas and access routes. Where subsurface investigations were necessary in areas supporting Monterey spineflower, the top two to three inches of soil were preserved and placed on a tarp or other impermeable surface, kept separate from other soil piles, and then replaced on top of backfilled soils. No subsurface investigations were necessary in areas supporting Yadon's piperia. Seaside bird's-beak and sand gilia were not observed within the project area during the baseline surveys or during project activities.

- *Conduct Employee Education Program:* Training for all supervisors and field personnel was conducted by the Project Biologist prior to working on the site. Training included information on rare, threatened, and endangered species on the site, including a description of the species, their protected status, a list of measures to be implemented to avoid and reduce impacts to these species and their habitat, and contact information to report unforeseen impacts to HMP species. Additionally, a Habitat Checklist was prepared by the Project Biologist prior to each activity that outlined specific avoidance and

minimization measures, which were communicated to the project supervisors prior to work initiation.

- *Minimize Impacts to California (Black) Legless Lizard*: Supervisors and field personnel were trained during the Employee Education Program to identify California legless lizard and were informed of the potential for this species to occur within the project area and the established protocol if any individuals were encountered. Prior to filling the target boxes, the Project Biologist inspected each target box to the extent feasible for California legless lizard. No California legless lizards were observed during any project activities.

- *Minimize and Compensate for Impacts to California Linderiella, California Tiger Salamander, and California Red-legged frog*: Supervisors and field personnel were trained during the Employee Education Program to identify CTS and California red-legged frog (CRLF; *Rana draytonii*) and were informed of the potential for these species to occur within the project area and the established protocol if any individuals were encountered. Prior to filling the target boxes, the Project Biologist inspected each target box to the extent feasible for CTS and CRLF. No CTS or CRLF were observed during any project activities. Additionally, work within the vernal pond areas was only permitted during the dry season and heavy equipment was prohibited in these areas, as described above. Limited excavation was necessary within the vernal ponds, however, procedures in the *SOP AGCMR-09, Anomaly Reacquisition and Intrusive Investigation*, as modified by FWV 021 (KEMRON, 2018), were followed to reduce impacts. Therefore, no restoration of habitat for these three species was necessary.

- Invasive Weed Control: To reduce the spread of invasive weeds, existing roads were used to the greatest extent feasible, and all equipment was pressure washed prior to entering habitat reserve areas.

- *Erosion Control:* To reduce erosion concerns normal vehicle access was restricted to existing roads and established access routes. Tracked vehicles were used to conduct vegetation removal and DGM surveys over the site, and filling of the target boxes. KEMRON monitored the work site for potential erosion problems and a final inspection was conducted by the Project Biologist. Erosion control was conducted on a portion of Nason Road in 2024 (Figure 3 and Appendix D).

10.2 Biological Monitoring

Prior to the initiation of work, baseline studies were conducted within the project area to document the location and abundance of HMP shrub and annual plant species and habitats; the results of these surveys are presented in the 2015 Annual Monitoring Report prepared by Burleson Consulting, Inc. in 2016 (Burleson, 2016). Harris Environmental, Inc. and Terracon Consultants, Inc. conducted follow-up monitoring in 2023 (Harris and Terracon, 2024). Monitoring within Unit 5 will continue according to the PBO (USFWS, 2017) to document the recovery of HMP species and habitat.

Pond 21 was monitored for baseline conditions in 1992 (USACE, 1992), 1999 (Harding Lawson Associates, 1999), 2009 (Shaw Environmental, Inc., 2010), and 2019 (Burleson, 2020). Baseline conditions were not monitored in Pond 76 as mastication began in Unit 5 prior to its recognition as a vernal pond. Follow-up monitoring of the vernal ponds was conducted by Harris Environmental, Inc. and Terracon Consultants, Inc. in 2023 (Harris and Terracon, 2024). Monitoring of the vernal ponds within Unit 5 will continue according to the PBO (USFWS, 2017) to ensure water quality, wetland and hydrologic function, wildlife usage, and wetland plant cover, diversity and dominance are comparable to the conditions before remediation.

11.0 Protectiveness Assessment

The protectiveness of the remedial action was evaluated against the requirements of the Track 3 ROD (Army, 2008). The remedial action performed in Unit 5 was consistent with the Addendum to Final Work Plan (KEMRON, 2022a) and Track 3 RD/RA Work Plan (USACE, 2009), and no conditions contrary to these documents were encountered at the site.

The Unit 5 TM is included as Appendix A. Regulatory agencies have reviewed the TM and approved the recommendations included. The Units 7/10/33 TM (Gilbane, 2015), which is also addressed in this document, recommended no additional work for the SW corner of the unit.

The following additional activities recommended in the TM have been completed and are as follows:

- DGM data was collected in Pond 76, and the subsurface investigation was conducted.
- Risk Reduction Subsurface MEC Removal - the 95 anomalies identified from the DGM data assessment were intrusively investigated. The potential explosive risk to prescribed burn

personnel from large projectiles (155mm and larger) at shallow depth has been addressed. In the large DGM data gaps, 67 anomalies were intrusively investigated with analog methods.

- As described in the Army-BLM joint inspection summary (Appendix D of the Unit 5 TM), the former target boxes were filled with nearby native soil or mulch. A summary report of this work is presented as Appendix D.

The MEC remedial action for the project area is complete. All surface and subsurface MEC remediation areas passed QC/QA. Based on the Track 3 ROD (Army, 2008) and the Track 3 RD/RA Work Plan (USACE, 2009), the following actions will occur until all remedial actions within the Track 3 Impact Area MRA are complete:

- Annual inspection of surface removal areas until the site is stabilized (annual surface monitoring),
- Site security of the Impact Area MRA will be maintained,
- Unauthorized public access to or within the Impact Area MRA will continue to be prohibited,
- MEC recognition and safety training as needed prior to property transfer and during the implementation of the remedial action,
- Provision of UXO-qualified personnel support for intrusive work, and
- Follow-up habitat monitoring for a period of eight years.

At the completion of the remedial action within the Impact Area MRA, the Army will evaluate the work completed against planned reuse activities and the suitability of the LUCs that were selected as part of the remedy. The results of this evaluation will be included in a Remedial Action Completion Report. A detailed LUC implementation plan will also be developed prior to property transfer, in coordination with the future landowner and the regulatory agencies.

12.0 References

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Tables

Table 1 – Major Event Milestones, Unit 5 Remedial Action

Activity	Date Started	Date Completed
Signature of Track 3 Record of Decision	NA	05/2008
Submittal of *Final Work Plan MRS-BLM Units 1-5* (OE-0626L)	NA	06/2008
Submittal of *Final RD/RA Work Plan* (OE-0660K)	NA	08/2009
DGM and subsurface MEC removal in HA-29	09/08/2010	09/09/2010
Surface MEC Removal and DGM Survey of 3.5-acre southwestern portion of unit	06/2013	12/2013
Submittal of the *MRS-BLM Units 7, 10, and 33 MEC Remedial Action, Technical Memorandum* (OE-0842)	NA	02/2015
Pond 21 DGM	11/18/20	11/19/20
Vegetation Clearance	11/05/21	12/21/21
Grid Staking	12/13/21	12/22/21
Completion of *Addendum to Final Work Plan MRS-BLM Units 1-5* (OE-0626U)	01/2022	04/2022
Surface MEC Removal	07/18/22	09/22/22
Pond 21 Subsurface MEC Removal	09/19/22	09/21/22
DGM for Unit 5 (all areas except SW corner and Ponds 21 and 76)	09/12/22	11/23/22
Completion of the Unit 5 Technical Memorandum (OE-1019A)	12/2022	05/2023
Pond 76 DGM	09/13/23	09/13/23
Pond 76 Subsurface MEC Removal	11/13/23	11/13/23
Risk Reduction/Large Data Gap Investigation	06/18/24	07/12/24
Target Box Filling and Nason Road Erosion Repair	07/12/24	07/18/24

Table 2 – Ranges Associated with Unit 5*

Historical Area	Range/Site Number	Range/Site Name(s)	Range Type	Comments
HA-28	28	Technique of Fire Range, Rifle Squad Tactical Range, Automatic Rifle and ARTEP Range	Mixed Use	This range was used from at least 1964 through early 1990s. The range was labeled as a Rifle Squad Tactical Range in 1964 and was labeled as Automatic Rifle and Army Training and Evaluation Program (ARTEP) Range (Def) in Standard Operating Procedures (SOPs) from 1973 through 1991. The area may have been used in the mid-1950s as indicated by presence of a Carbine Range shown on the 1956 training map. According to range control records, the range was used for day and nighttime activities.
HA-29	29	Machine Gun Assault Range, Squad Battle Drill and Assault Range, 10m Machine Gun, 25m Zero, M-3 Machine Gun	Mixed Use	This range was used from at least 1961 through 1975 as a Machine Gun Assault Range. It was reactivated in 1984, and a portion of the range was set up for mortar firing. In 1991 the machine gun assault course was converted to a 10m/25m range. SOP for the mortar range indicated 60mm, 81mm, and 4.2 inch mortars were authorized for firing. The 1956 Training Map showed a range in the same area as Range 29 labeled as a 57mm RR range, so the range may have been used as early as the mid-50s.
HA-30	30/30A	Rifle Squad Tactical Ranges, Technique of Fire Ranges, Squad Defense, ARTEP	Mixed Use	This range was constructed in 1964 and used for Basic Combat Training until 1975. The range was reactivated in 1983 and deactivated in 1989. The range was listed as a Technique of Fire Range on the 1973 SOP, as a Military Operations Built Up Areas range in 1982 with blank ammo only, and as a Squad Defense ARTEP range in 1984. The range was not listed in the 1991 and 1992 SOPs. The area may have been used as a range in the 1950s, based on the 1956 training map that shows a Submachine gun range in the area.
HA-66	NA	Carbine Table XI	Small Arms	This range is shown on the 1956 range construction priority map but is not shown on the 1958 and 1961 training maps, and it is not evident on the 1965 air photo mosaic. It is not known if this range was ever constructed.
HA-68	NA	Sub Mach Gun Dismounted	Small Arms	This range is only shown on the July 1956 Training Map. The use of the range is unknown, but based on the title of the range, it may have been used for small arms.

***Note: See **Figure 2** for range locations.

Table 3 - Previous Work in Unit 5*

Figure 3 Legend Description	Location (see Figure 3)	Document Title	AR #
Surface Removal - 2013 (Gilbane)	SW corner of unit	MRS-BLM Units 7, 10, and 33 MEC Remedial Action, Technical Memorandum Former Fort Ord, California	OE-0842
DGM Survey - 2013 (Gilbane/Shaw)	SW corner of unit	MRS-BLM Units 7, 10, and 33 MEC Remedial Action, Technical Memorandum Former Fort Ord, California	OE-0842
DGM Survey - 2010 (Shaw) DGM Dig - 2010 (Shaw)	HA-29, south-central part of unit; small area north of this in central unit	Final Remedial Action Completion Report Site 39 Inland Ranges Habitat Reserve Former Fort Ord California	RI-047C
Subsurface Removal (4 ft) - 1997 (USA)	Forrestal Rd (north-south road in center of unit), and Vulcan Rd (south boundary in western half of unit)	Final 4' OE Removal Action Report Inland Range Contract Site OE-15 (Roads and Trails)	OE-0316
OE Sampling 1998 (USA)	Middle of unit	Final After-Action Report 100% Grid Sampling, Inland Range Contract, Former Fort Ord, California Site OE-15B	OE-0287A

- Note: * Work completed prior to the *Addendum to Final Work Plan, (KEMRON, 2022a)*

Table 4 –Remedial Action Result Summary

Remedial Action Total Areas	
Total area of DGM/subsurface investigation in HA-29 (2009):	0.96 acres
Technology-aided surface removal/ DGM survey in SW corner of unit (2013)	3.93 acres
Technology-aided surface removal total area (2022):	124.7 acres
DGM survey total area (2022):	123.7 acres
Pond 21 DGM survey/geophysical anomaly investigation area (2020/2022):	0.85 acres
Pond 76 DGM survey/geophysical anomaly investigation area (2023):	0.13 acres
Total area of large data gap/risk reduction intrusive investigation (2024):	3.55 acres
Remedial Action Quantities	
Total number of MEC items removed during remedial action:	29*
Risk Reduction Anomalies Investigated (2024):	95
Total munitions debris (MD) removed during 2022 surface MEC removal:	4,360 lbs.
Total range-related debris (RRD) removed during 2022 surface MEC removal:	3,900 lbs.

Notes:

1) Total Unit 5 area is 130 acres.
2) Locations of remedial actions and previous munitions responses performed in Unit 5 are shown on Figure 3.

*A total of 31 MEC items were removed from Unit 5. Two items were found during previous 1997/1998 munitions responses, and 29 items found during work after the signing of the 2008 ROD. Of these 29, four MEC items were found in the southwest corner of the unit (2013), one MEC item was found in the HA-29 soil stockpile (2010), 1 item found during vegetation removal (2021), one item was found during the Risk Reduction Investigation (2024), and 22 MEC items were found during the 2022 surface MEC removal/remedial action.

Table 5
MEC Items Removed During Remedial Action and Previous Munitions Responses

Model Description	Date Found	Grid ID	Depth (in)	OE Type	Quantity	Contractor	Unique ID
Projectile, 75mm, high explosive, M48	11/6/1997	15_VULCAN ROAD 25-27	0	UXO	1	USA	77800
Fuze, projectile, combination, M1907	1/27/1998	MRS-15B_G 04	0	UXO	1	USA	77903
Cartridge, 40mm, practice, M781[1]	12/29/2009	A2F0D4	0	DMM	1	SHAW	812536
Rocket, 35mm, subcaliber, practice, M73	7/17/2013	A2G8B3	0	UXO	1	GILBANE	814777
Rocket, 35mm, subcaliber, practice, M73	7/17/2013	A2G8D3	0	UXO	1	GILBANE	814788
Rocket, 35mm, subcaliber, practice, M73	7/17/2013	A2G8B4	0	UXO	1	GILBANE	814780
Rocket, 35mm, subcaliber, practice, M73	7/17/2013	A2G8B4	0	UXO	1	GILBANE	814781
Projectile, 8inch, high explosive, M106	11/19/2021	A2G0G0	0	UXO	1	KEMRON	2176875
Projectile, 75mm, high explosive, MK I	7/28/2022	A3G1D8	0	UXO	1	KEMRON	2176808
Projectile, 40mm, high explosive, M383	8/4/2022	A2G0F3	0	UXO	1	KEMRON	2176881
Grenade, hand, practice, M69	8/8/2022	A3F2G3	0	DMM	1	KEMRON	2176828
Grenade, hand, practice, M69	8/10/2022	A3F2H0	0	DMM	1	KEMRON	2176826
Projectile, 75mm, shrapnel, MK I	8/11/2022	A2G0G9	0	UXO	1	KEMRON	2176839
Projectile, 40mm, high explosive, M383	8/15/2022	A2G0H2	0	UXO	1	KEMRON	2176833
Projectile, 40mm, high explosive, M383	8/18/2022	A2G0I2	0	UXO	1	KEMRON	2176897
Projectile, 75mm, high explosive, M48	8/25/2022	A2H0B6	0	UXO	1	KEMRON	2176834
Projectile, 37mm, low explosive, MK I	8/29/2022	A2H0B3	0	UXO	1	KEMRON	2176803
Projectile, 75mm, high explosive, MK I	8/31/2022	A2G9E8	0	UXO	1	KEMRON	2176890
Projectile, 37mm, low explosive, MK I	9/12/2022	A2G9I6	0	UXO	1	KEMRON	2176853
Projectile, 37mm, low explosive, MK I	9/13/2022	A2H8C3	0	UXO	1	KEMRON	2176802
Projectile, 37mm, low explosive, MK II	9/13/2022	A2G9J2	0	UXO	1	KEMRON	2176842
Projectile, 37mm, low explosive, MK I	9/15/2022	A2H9B1	0	UXO	1	KEMRON	2176888
Projectile, 75mm, high explosive, M48	9/15/2022	A2H8D4	0	UXO	1	KEMRON	2176895
Projectile, 37mm, low explosive, MK II	9/15/2022	A2H8D4	0	UXO	1	KEMRON	2176861
Projectile, 75mm, shrapnel, MK I	9/16/2022	A2H9C2	0	UXO	1	KEMRON	2176825
Projectile, 37mm, low explosive, MK II	9/16/2022	A2H8E3	0	UXO	1	KEMRON	2176819
Projectile, 37mm, low explosive, MK II	9/16/2022	A2H8E4	0	UXO	1	KEMRON	2176832

Table 5
MEC Items Removed During Remedial Action and Previous Munitions Responses

Model Description	Date Found	Grid ID	Depth (in)	OE Type	Quantity	Contractor	Unique ID
Projectile, 37mm, low explosive, MK II	9/16/2022	A2H8E6	0	UXO	1	KEMRON	2176886
Projectile, 37mm, low explosive, MK II	9/20/2022	A2H9D3	0	UXO	1	KEMRON	2176884
Projectile, 37mm, low explosive, MK I	9/21/2022	A2H8E7	0	UXO	1	KEMRON	2176906
Projectile, 75mm, high explosive, M48	6/19/2024	A2G0F1	10	UXO	1	KEMRON	2178811
Note:							

1) Item "Cartridge, 40mm, practice, M781" (Unique ID 812536) was recovered in the HA-29 soil stockpile in 2009 during the HA-29 soil remediation. Though the soil stockpile was just outside Unit 5, the item originated in the HA-29 soil remediation footprint within Unit 5.

Table 6
Pond 21 Instrusive Results

Anomaly ID	Work Date	Grid ID	Northing	Easting	Quantity	Depth (inch)	OE Type	Description
Pond21-001	9/20/2022	Pond21	2108876	5745209	0	18	Other	None
Pond21-002	9/20/2022	Pond21	2108883	5745189	0	0	Other	None
Pond21-003	9/20/2022	Pond21	2108883	5745306	0	0	Other	None
Pond21-004	9/20/2022	Pond21	2108883	5745308	0	0	Other	None
Pond21-005	9/20/2022	Pond21	2108888	5745232	0	0	Other	None
Pond21-006	9/20/2022	Pond21	2108889	5745350	0	0	Other	None
Pond21-007	9/20/2022	Pond21	2108891	5745325	1	1	Other-SAA	small arms, 50cal
Pond21-008	9/20/2022	Pond21	2108891	5745354	0	0	Other	None
Pond21-009	9/20/2022	Pond21	2108892	5745327	0	0	Other	None
Pond21-010	9/20/2022	Pond21	2108892	5745369	0	0	Other	None
Pond21-011	9/20/2022	Pond21	2108893	5745187	0	0	Other	None
Pond21-012	9/20/2022	Pond21	2108893	5745376	0	0	Other	None
Pond21-013	9/20/2022	Pond21	2108895	5745252	0	0	Other	None
Pond21-014	9/20/2022	Pond21	2108897	5745275	0	0	Other	None
Pond21-015	9/20/2022	Pond21	2108898	5745346	0	0	Other	None
Pond21-016	9/20/2022	Pond21	2108899	5745348	0	0	Other	None
Pond21-017	9/20/2022	Pond21	2108900	5745388	0	0	Other	None
Pond21-018	9/20/2022	Pond21	2108902	5745210	0	0	Other	None
Pond21-019	9/20/2022	Pond21	2108908	5745368	0	0	Other	None
Pond21-020	9/20/2022	Pond21	2108910	5745368	0	0	Other	None
Pond21-021	9/20/2022	Pond21	2108915	5745196	0	0	Other	None
Pond21-022	9/20/2022	Pond21	2108915	5745257	0	22	Other	None
Pond21-023	9/20/2022	Pond21	2108915	5745198	0	0	Other	None
Pond21-024	9/20/2022	Pond21	2108916	5745212	0	0	Other	None
Pond21-025	9/20/2022	Pond21	2108918	5745214	0	0	Other	None
Pond21-026	9/20/2022	Pond21	2108922	5745200	0	0	Other	None
Pond21-027	9/20/2022	Pond21	2108926	5745407	0	0	Other	None
Pond21-028	9/20/2022	Pond21	2108935	5745269	0	0	Other	None
Pond21-029	9/20/2022	Pond21	2108935	5745424	0	0	Other	None
Pond21-030	9/20/2022	Pond21	2108937	5745242	0	0	Other	None
Pond21-031	9/20/2022	Pond21	2108941	5745235	1	6	MD	Assorted MD Components
Pond21-032	9/20/2022	Pond21	2108943	5745235	0	0	Other	None
Pond21-033	9/20/2022	Pond21	2108944	5745333	0	0	Other	None
Pond21-034	9/20/2022	Pond21	2108945	5745239	0	0	Other	None
Pond21-035	9/20/2022	Pond21	2108946	5745288	0	0	Other	None
Pond21-036	9/20/2022	Pond21	2108951	5745291	0	0	Other	None
Pond21-037	9/20/2022	Pond21	2108955	5745228	0	0	Other	None
Pond21-038	9/20/2022	Pond21	2108956	5745231	0	0	Other	None
Pond21-039	9/20/2022	Pond21	2108959	5745322	0	0	Other	None
Pond21-040	9/20/2022	Pond21	2108962	5745395	0	0	Other	None
Pond21-041	9/20/2022	Pond21	2108963	5745397	0	0	Other	None
Pond21-042	9/20/2022	Pond21	2108964	5745266	0	0	Other	None
Pond21-043	9/20/2022	Pond21	2108965	5745296	0	0	Other	None
Pond21-044	9/20/2022	Pond21	2108966	5745417	0	0	Other	None

Table 6
Pond 21 Instrusive Results

Anomaly ID	Work Date	Grid ID	Northing	Easting	Quantity	Depth (inch)	OE Type	Description
Pond21-045	9/20/2022	Pond21	2108966	5745362	0	0	Other	None
Pond21-046	9/20/2022	Pond21	2108967	5745359	0	0	Other	None
Pond21-047	9/20/2022	Pond21	2108968	5745428	0	0	Other	None
Pond21-048	9/20/2022	Pond21	2108970	5745358	0	0	Other	None
Pond21-049	9/20/2022	Pond21	2108970	5745256	0	0	Other	None
Pond21-050	9/20/2022	Pond21	2108970	5745431	0	0	Other	None
Pond21-051	9/20/2022	Pond21	2108972	5745422	1	6	MD	Assorted MD Components
Pond21-052	9/20/2022	Pond21	2108972	5745436	0	0	Other	None
Pond21-053	9/20/2022	Pond21	2108973	5745272	0	0	Other	None
Pond21-054	9/20/2022	Pond21	2108977	5745334	0	0	Other	None
Pond21-055	9/20/2022	Pond21	2108978	5745331	0	0	Other	None
Pond21-056	9/20/2022	Pond21	2108984	5745436	0	0	Other	None
Pond21-057	9/20/2022	Pond21	2108986	5745256	0	0	Other	None
Pond21-058	9/20/2022	Pond21	2108986	5745327	0	0	Other	None
Pond21-059	9/20/2022	Pond21	2108989	5745354	0	0	Other	None
Pond21-060	9/20/2022	Pond21	2108995	5745429	0	0	Other	None
Pond21-061	9/20/2022	Pond21	2108997	5745432	0	0	Other	None
Pond21-062	9/20/2022	Pond21	2109004	5745342	0	0	Other	None
Pond21-063	9/20/2022	Pond21	2109004	5745340	0	0	Other	None
Pond21-064	9/20/2022	Pond21	2109006	5745337	0	0	Other	None
Pond21-065	9/20/2022	Pond21	2109007	5745292	0	0	Other	None
Pond21-066	9/20/2022	Pond21	2109010	5745416	0	0	Other	None
Pond21-067	9/20/2022	Pond21	2109011	5745384	0	0	Other	None
Pond21-068	9/20/2022	Pond21	2109019	5745306	0	0	Other	None
Pond21-069	9/20/2022	Pond21	2109022	5745312	0	0	Other	None
Pond21-070	9/20/2022	Pond21	2109024	5745386	0	0	Other	None
Pond21-071	9/20/2022	Pond21	2109026	5745344	0	0	Other	None
Pond21-072	9/20/2022	Pond21	2109026	5745394	0	0	Other	None
Pond21-073	9/20/2022	Pond21	2109027	5745391	0	0	Other	None
Pond21-074	9/20/2022	Pond21	2109031	5745331	0	0	Other	None
Pond21-075	9/20/2022	Pond21	2109041	5745301	0	0	Other	None
Pond21-076	9/20/2022	Pond21	2109044	5745318	0	0	Other	None
Pond21-077	9/20/2022	Pond21	2109046	5745315	0	0	Other	None
Pond21-078	9/20/2022	Pond21	2109059	5745373	0	0	Other	None
Pond21-079	9/20/2022	Pond21	2109060	5745370	0	0	Other	None
Pond21-080	9/20/2022	Pond21	2109069	5745389	0	0	Other	None

Notes:

1) One target was dug to the vernal pond clearance depth of 18 inches and one target was dug beyond the vernal pond clearance depth (22 inches).

2) No metallic objects were recovered from either target location.

3) Anomaly ID corresponds with points/IDs on Figure 6.

4) All surveys performed with an EM61-MK2A.

Table 7
Pond 76 Instrusive Results

Anomaly ID	Date	Grid ID	Northing	Easting	Quantity	Depth (inch)	OE Type	Description
P76-1	11/13/2023	Pond76	2107966.34	5746500.27	0	18	Other	None
P76-2	11/13/2023	Pond76	2108002.13	5746511.78	0	18	Other	None
P76-3	11/13/2023	Pond76	2108033.17	5746482.26	1	6	SAA	small arms, 50cal
P76-4	11/13/2023	Pond76	2108034.16	5746503.44	1	6	MD	Assorted MD Components
P76-5	11/13/2023	Pond76	2108053.49	5746508.35	1	6	MD	Assorted MD Components
P76-6	11/13/2023	Pond76	2108064.41	5746495.74	1	8	MD	Assorted MD Components
P76-7	11/13/2023	Pond76	2108077.39	5746469.96	1	6	MD	Assorted MD Components
Note: Anomalies P76-1 and P76-2 were investigated to 18-inches below ground surface, but no items were recovered.								

Table 8
Risk Reduction
Intrusive Investigation Results

Anomaly ID	Date	Grid ID	Northing	Easting	Quantity	Depth (inch)	Type	Original OE Nomenclature	Description
1	6/21/2024	A2F0I5	2107801	5744915	NA	0	CD	None	Culvert (Not Removed)
2	6/19/2024	A3G1J8	2108924	5746228	NA	12	CD	None	Culvert (Not Removed)
3	6/24/2024	A3G2C3	2108228	5746787	NA	0	CD	None	Target Box (Not Removed)
4	6/20/2024	A3F2I6	2107866	5747053	NA	5	CD	None	Culvert (Not Removed)
5	6/20/2024	A2F0I2	2107845	5744605	NA	0	CD	None	Reinforced Concrete (Not Removed)
6	6/19/2024	A3G2I2	2108834	5746700	NA	12	CD	None	Culvert (Not Removed)
7	6/19/2024	A3G2I2	2108808	5746698	NA	12	CD	None	Culvert (Not Removed)
8	6/19/2024	A3G1J8	2108903	5746205	NA	12	CD	None	Culvert (Not Removed)
9	6/19/2024	A3G1J8	2108912	5746215	NA	12	CD	None	Culvert (Not Removed)
10	6/24/2024	A3G2D3	2108351	5746705	NA	12	CD	None	Culvert (Not Removed)
11	6/20/2024	A3F2I6	2107878	5747055	NA	14	CD	None	Culvert (Not Removed)
12	6/19/2024	A3G1I7	2108887	5746186	NA	12	CD	None	Culvert (Not Removed)
13	6/24/2024	A3G2D3	2108358	5746719	NA	14	CD	None	Culvert (Not Removed)
14	6/20/2024	A2G0A1	2108080	5744547	1	0	CD	None	Scrap Metal
15	6/21/2024	A3F2I3	2107887	5746762	1	6	CD	None	Scrap Metal
16	6/20/2024	A3F2I5	2107853	5746961	NA	0	CD	None	Target Box (Not Removed)
17	6/20/2024	A2G0C1	2108267	5744545	1	3	CD	None	Scrap Metal
18	6/24/2024	A3G2C3	2108229	5746770	NA	0	CD	None	Target Box (Not Removed)
19	6/20/2024	A3F2J5	2107931	5746945	1	2	CD	None	Aluminum Scrap Metal
20	6/24/2024	A3G2B2	2108156	5746683	NA	0	CD	None	Target Box (Not Removed)
21	6/24/2024	A3G2B2	2108161	5746666	NA	0	CD	None	Target Box (Not Removed)
22	6/24/2024	A3G2B2	2108138	5746650	NA	0	CD	None	Target Box (Not Removed)
23	6/24/2024	A3G2B2	2108144	5746661	NA	0	CD	None	Target Box (Not Removed)
24	6/20/2024	A3F2J4	2107926	5746805	0	0	CD	None	Conduit (Not Removed)
25	6/21/2024	A3F2G5	2107673	5746994	1	3	CD	None	Scrap Metal
26	6/20/2024	A2F0I2	2107834	5744607	0	0	CD	None	Rebar (Not Removed)
27	6/21/2024	A2F0I5	2107803	5744911	NA	24	FP	None	None
28	6/20/2024	A2F0J2	2107968	5744663	1	8	CD	None	Scrap Metal
29	6/20/2024	A2F0J2	2107945	5744671	0	0	CD	None	Rebar (Not Removed)
30	6/21/2024	A2F0H3	2107782	5744753	1	20	CD	None	Scrap Metal
31	6/24/2024	A3G2A2	2108053	5746688	0	24	CD	None	Scrap Metal (Not Removed)
32	6/24/2024	A3F1J5	2107986	5745930	1	6	MD	projo, 75mm	None
33	6/21/2024	A3F2J4	2107911	5746815	1	18	CD	None	T-Post
34	6/19/2024	A3G1I0	2108899	5746461	NA	0	CD	None	Culvert (Not Removed)
35	6/20/2024	A2F0I2	2107825	5744601	0	2	CD	None	Conduit (Not Removed)
36	6/18/2024	A2H8C2	2109222	5742687	0	0	CD	None	T-Post (Not Removed)
37	6/19/2024	A3G1I7	2108890	5746199	NA	0	CD	None	Culvert (Not Removed)
38	6/21/2024	A3F2G5	2107658	5746980	1	5	CD	None	Scrap Metal
39	6/24/2024	A3G2B1	2108165	5746568	0	24	CD	None	Scrap Metal (Not Removed)
40	6/20/2024	A2F0I2	2107841	5744607	NA	0	CD	None	Reinforced Concrete (Not Removed)
41	6/18/2024	A2H8C8	2109231	5743231	1	3	MD	projo, 75mm	None
42	6/20/2024	A2G9C0	2108280	5744446	1	4	CD	None	Aluminum Scrap Metal
43	6/21/2024	A3F2H4	2107743	5746899	1	6	CD	None	T-Post
44	6/20/2024	A2F0I2	2107842	5744603	NA	0	CD	None	Reinforced Concrete (Not Removed)
45	6/21/2024	A2F0I5	2107849	5744903	NA	24	FP	None	None
46	6/21/2024	A3F2G5	2107670	5746990	1	3	CD	None	Scrap Metal
47	6/19/2024	A3G1J8	2108925	5746218	0	0	CD	None	T-Post (Not Removed)
48	6/21/2024	A2F0J3	2107944	5744794	0	0	CD	None	Rebar (Not Removed)
49	6/21/2024	A3F2G5	2107669	5746985	1	7	CD	None	Metal Pipe
50	6/20/2024	A3F2J5	2107944	5746956	1	8	CD	None	T-Post (Not Removed)
51	6/20/2024	A3F2I4	2107896	5746829	1	6	CD	None	Metal Pipe
52	6/24/2024	A2G0A9	2108093	5745363	NA	24	FP	None	None
53	6/21/2024	A3F2I4	2107863	5746840	1	8	CD	None	Scrap Metal
54	6/21/2024	A2F0I5	2107802	5744908	NA	0	CD	None	Culvert (Not Removed)
55	6/19/2024	A3G1I7	2108876	5746181	NA	0	CD	None	Culvert (Not Removed)

Table 8
Risk Reduction
Intrusive Investigation Results

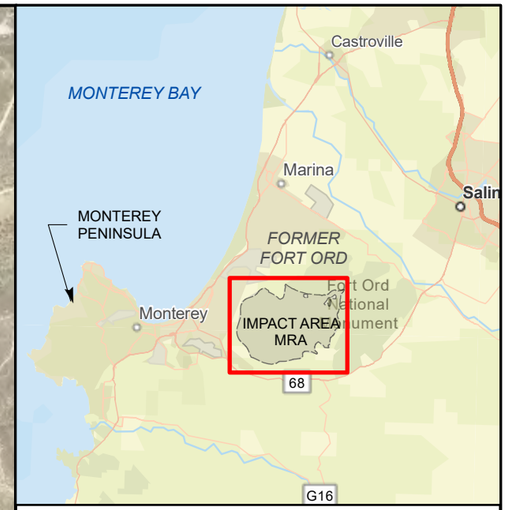
Anomaly ID	Date	Grid ID	Northing	Easting	Quantity	Depth (inch)	Type	Original OE Nomenclature	Description
56	6/24/2024	A3G1E2	2108414	5745604	1	8	MD	projo, 155mm	None
57	6/24/2024	A3F2G4	2107604	5746895	4	6	CD	None	Scrap Metal
58	6/21/2024	A2F0J5	2107933	5744903	0	24	CD	None	Conduit (Not Removed)
59	6/24/2024	A3F2G5	2107625	5746913	1	4	CD	None	Scrap Metal
60	6/19/2024	A2H9A0	2109085	5744466	0	0	CD	None	Aluminum Scrap Metal
61	6/24/2024	A2G0J7	2108932	5745110	1	6	MD	projo, 75mm	None
62	6/24/2024	A3F2F5	2107593	5746962	2	3	CD	None	Scrap Metal
63	6/21/2024	A2F0J3	2107926	5744765	1	6	CD	None	Aluminum Scrap Metal
64	6/21/2024	A2F0J3	2107925	5744790	1	0	CD	None	Metal Pipe
65	6/19/2024	A2H9C5	2109250	5743941	0	0	CD	None	T-Post (Not Removed)
66	6/21/2024	A3F2G5	2107662	5746981	1	4	CD	None	Scrap Metal
67	6/19/2024	A3G1J7	2108903	5746192	NA	0	CD	None	Culvert (Not Removed)
68	6/19/2024	A2G0F1	2108584	5744524	1	10	UXO	Projectile, 75mm, HE, M48	None
69	6/20/2024	A2F0I1	2107869	5744584	0	24	CD	None	Metal Pipe (Not Removed)
70	6/20/2024	A3F2I4	2107880	5746899	NA	24	FP	None	None
71	6/20/2024	A2F0I2	2107869	5744606	0	0	CD	None	Rebar (Not Removed)
72	6/18/2024	A2H8G3	2109626	5742748	0	0	CD	None	T-Post (Not Removed)
73	6/19/2024	A3H1C2	2109290	5745618	NA	24	FP	None	None
74	6/21/2024	A3F2I4	2107861	5746842	1	8	CD	None	Scrap Metal
75	6/21/2024	A2F0H5	2107795	5744914	NA	0	CD	None	Culvert (Not Removed)
76	6/20/2024	A3F2I4	2107895	5746832	0	24	CD	None	Metal Pipe (Not Removed)
77	6/24/2024	A3F2F4	2107586	5746842	NA	24	FP	None	None
78	6/18/2024	A2H8G4	2109636	5742874	0	0	CD	None	T-Post (Not Removed)
79	6/19/2024	A2H9A0	2109076	5744424	NA	1	CD	None	Survey Marker (Not Removed)
80	6/21/2024	A3F2G5	2107655	5746972	1	8	CD	None	Scrap Metal
81	6/19/2024	A2H0A1	2109098	5744518	0	0	CD	None	T-Post (Not Removed)
82	6/24/2024	A3G1A7	2108060	5746134	1	8	MD	projo, 75mm	None
83	6/21/2024	A3F2G5	2107648	5746953	1	6	CD	None	Scrap Metal
84	6/24/2024	A3F2F4	2107587	5746844	NA	24	FP	None	None
85	6/18/2024	A2G8J2	2108922	5742675	0	0	CD	None	T-Post (Not Removed)
86	6/19/2024	A3G1J0	2108901	5746444	NA	0	CD	None	Culvert (Not Removed)
87	6/24/2024	A3G2B2	2108159	5746617	0	24	CD	None	Scrap Metal (Not Removed)
88	6/20/2024	A2G0A1	2108079	5744550	1	0	CD	None	Scrap Metal
89	6/24/2024	A3F2G5	2107624	5746903	NA	24	FP	None	None
90	6/24/2024	A3F2G5	2107629	5746910	1	4	CD	None	Scrap Metal
91	6/19/2024	A2H9A9	2109068	5744331	0	0	CD	None	T-Post (Not Removed)
92	6/18/2024	A2G8G3	2108652	5742704	NA	24	FP	None	None
93	6/19/2024	A2H9A8	2109085	5744274	1	8	CD	None	Metal Pipe
94	6/20/2024	A3F2I5	2107858	5746970	NA	0	CD	None	Influence from Target Box
95	6/19/2024	A2H0D7	2109351	5745110	0	0	CD	None	T-Post (Not Removed)

CD - Cultural Debris (features items such as pipes, nails, t-bars, etc.)
FP - False Positive
MD - Munitions Debris
NA - Not Applicable

Table 9
Large Data Gap-Risk Reduction
Intrusive Investigation Results

Data Gap Grid ID	Acreage Completed	Date	Number of Digs	Lbs MD	Lbs OD	MPPEH Items	MD Items	OD Items
A2G0H9-G	0.21	7/2/2024	16	0	25	0	No MD Found	Aluminum Scrap Metal, Scrap Metal
A2G0G0-G	0.07	7/2/2024	7	0	17	0	No MD Found	Aluminum Scrap Metal, Metal Pipe,Scrap Metal
A2G0G8-G	0.23	7/3/2024	16	0	17	0	No MD Found	Aluminum Scrap Metal, Scrap Metal
A2G0F9-G	0.03	7/3/2024	4	0	5	0	No MD Found	Cable, Scrap Metal
A2F0H5-G	0.06	7/9/2024	5	0	3	0	No MD Found	Concrete (Not Removed),Scrap Metal
A2F0I1-G	0.03	7/9/2024	10	0	7	0	No MD Found	Concrete (Not Removed),Scrap Metal
A2F0I5-G	0.06	7/9/2024	7	0	5	0	No MD Found	Conduit, Culvert (Not Removed), Scrap Metal
A3G2B2-G	0.07	7/11/2024	10	0	6	0	No MD Found	Conduit, Scrap Metal, Target Box (Not Removed)
A3F2I6-G	0.06	7/10/2024	9	0	7	0	No MD Found	Culvert (Not Removed), Scrap Metal
A3G2I3-G	0.01	7/11/2024	2	0	1	0	No MD Found	Culvert (Not Removed), Scrap Metal
A3F2J1-G	0.10	7/11/2024	22	0	16	0	No MD Found	Metal Pipe, Scrap Metal
A3G2A1-G	0.15	7/11/2024	18	0	20	0	No MD Found	Metal Plate, Scrap Metal
A2G0I8-G	0.05	7/2/2024	3	0	5	0	No MD Found	Metal Plate, Scrap Metal
A2F0J1-G	0.01	7/9/2024	2	0	3	0	No MD Found	Metal Spike, Scrap Metal
A3F1J0-G	0.10	7/11/2024	17	0	13	0	No MD Found	Metal Spike, Scrap Metal
A3G1J2-G	0.01	7/8/2024	0	0	0	0	No MD Found	None
A2F0F7-G	0.00	7/9/2024	0	0	0	0	No MD Found	None
A2F0G7-G	0.00	7/9/2024	0	0	0	0	No MD Found	None
A2G0B2-G	0.00	7/9/2024	0	0	0	0	No MD Found	None
A2G0B3-G	0.00	7/9/2024	0	0	0	0	No MD Found	None
A3F2G9-G	0.00	7/10/2024	0	0	0	0	No MD Found	None
A2G0I7-G	0.01	7/2/2024	2	0	4	0	No MD Found	Scrap Metal
A2G0I9-G	0.03	7/2/2024	3	0	7	0	No MD Found	Scrap Metal
A2G0F8-G	0.05	7/3/2024	3	0	6	0	No MD Found	Scrap Metal
A2G0G9-G	0.23	7/3/2024	18	0	20	0	No MD Found	Scrap Metal
A2H0C0-G	0.03	7/3/2024	2	0	3	0	No MD Found	Scrap Metal
A2G0G7-G	0.12	7/4/2024	7	0	4	0	No MD Found	Scrap Metal
A2G0H7-G	0.19	7/4/2024	13	0	11	0	No MD Found	Scrap Metal
A2G0H8-G	0.23	7/4/2024	17	0	14	0	No MD Found	Scrap Metal
A2G0E0-G	0.02	7/8/2024	2	0	1	0	No MD Found	Scrap Metal
A2G0E7-G	0.03	7/8/2024	4	0	2	0	No MD Found	Scrap Metal
A2G0I0-G	0.05	7/8/2024	5	0	3	0	No MD Found	Scrap Metal
A2G0J0-G	0.06	7/8/2024	4	0	2	0	No MD Found	Scrap Metal
A3G1E1-G	0.01	7/8/2024	1	0	1	0	No MD Found	Scrap Metal
A3G1I1-G	0.13	7/8/2024	13	0	7	0	No MD Found	Scrap Metal
A3G1J1-G	0.12	7/8/2024	7	0	6	0	No MD Found	Scrap Metal
A3H1A1-G	0.06	7/8/2024	6	0	3	0	No MD Found	Scrap Metal
A2F0F6-G	0.00	7/9/2024	1	0	1	0	No MD Found	Scrap Metal
A2F0G6-G	0.01	7/9/2024	2	0	2	0	No MD Found	Scrap Metal
A2F0I3-G	0.01	7/9/2024	1	0	1	0	No MD Found	Scrap Metal
A2F0I4-G	0.04	7/9/2024	3	0	2	0	No MD Found	Scrap Metal
A2F0J3-G	0.09	7/9/2024	16	0	11	0	No MD Found	Scrap Metal
A2G0A3-G	0.03	7/9/2024	5	0	4	0	No MD Found	Scrap Metal
A2G0C1-G	0.01	7/9/2024	4	0	2	0	No MD Found	Scrap Metal
A2G0C2-G	0.04	7/9/2024	5	0	5	0	No MD Found	Scrap Metal
A2G0C3-G	0.01	7/9/2024	1	0	1	0	No MD Found	Scrap Metal
A2H9A8-G	0.03	7/10/2024	4	2	2	0	grenade, hand	Scrap Metal
A3F2F7-G	0.01	7/10/2024	1	0	1	0	No MD Found	Scrap Metal
A3F2G7-G	0.01	7/10/2024	3	0	2	0	No MD Found	Scrap Metal
A3F2H2-G	0.02	7/10/2024	4	0	3	0	No MD Found	Scrap Metal
A3F2H7-G	0.02	7/10/2024	4	0	3	0	No MD Found	Scrap Metal
A3F2H9-G	0.06	7/10/2024	11	0	7	0	No MD Found	Scrap Metal
A3F2I7-G	0.06	7/10/2024	8	0	4	0	No MD Found	Scrap Metal
A3F2I8-G	0.04	7/10/2024	7	0	5	0	No MD Found	Scrap Metal
A3F2I9-G	0.00	7/10/2024	1	0	1	0	No MD Found	Scrap Metal
A3F2J5-G	0.02	7/10/2024	5	0	3	0	No MD Found	Scrap Metal
A3G1I0-G	0.03	7/10/2024	12	0	10	0	No MD Found	Scrap Metal
A3G1I9-G	0.03	7/10/2024	9	0	8	0	No MD Found	Scrap Metal
A3G2I1-G	0.03	7/10/2024	13	0	15	0	No MD Found	Scrap Metal
A3F2J2-G	0.02	7/11/2024	2	0	1	0	No MD Found	Scrap Metal
A3G2A2-G	0.03	7/11/2024	1	0	1	0	No MD Found	Scrap Metal
A3G2I2-G	0.01	7/11/2024	3	0	2	0	No MD Found	Scrap Metal
A3F2I5-G	0.02	7/12/2024	1	0	1	0	No MD Found	Scrap Metal
A3G1A0-G	0.10	7/12/2024	18	0	15	0	No MD Found	Scrap Metal
A3G1A9-G	0.04	7/12/2024	6	0	4	0	No MD Found	Scrap Metal
A3G1B0-G	0.02	7/12/2024	4	0	3	0	No MD Found	Scrap Metal
A3G2B1-G	0.09	7/12/2024	22	0	17	0	No MD Found	Scrap Metal, Target Box (Not Removed)
Total:	**3.55 acres**		**432**	**2**	**381**	**0**		
Note: The model of 'hand grenade' MD found in A2H9A8-G was not determined.								

Figures



Legend

- Unit 5 Boundary
- Impact Area MRA Track 3 Boundary
- Former Fort Ord Boundary

N

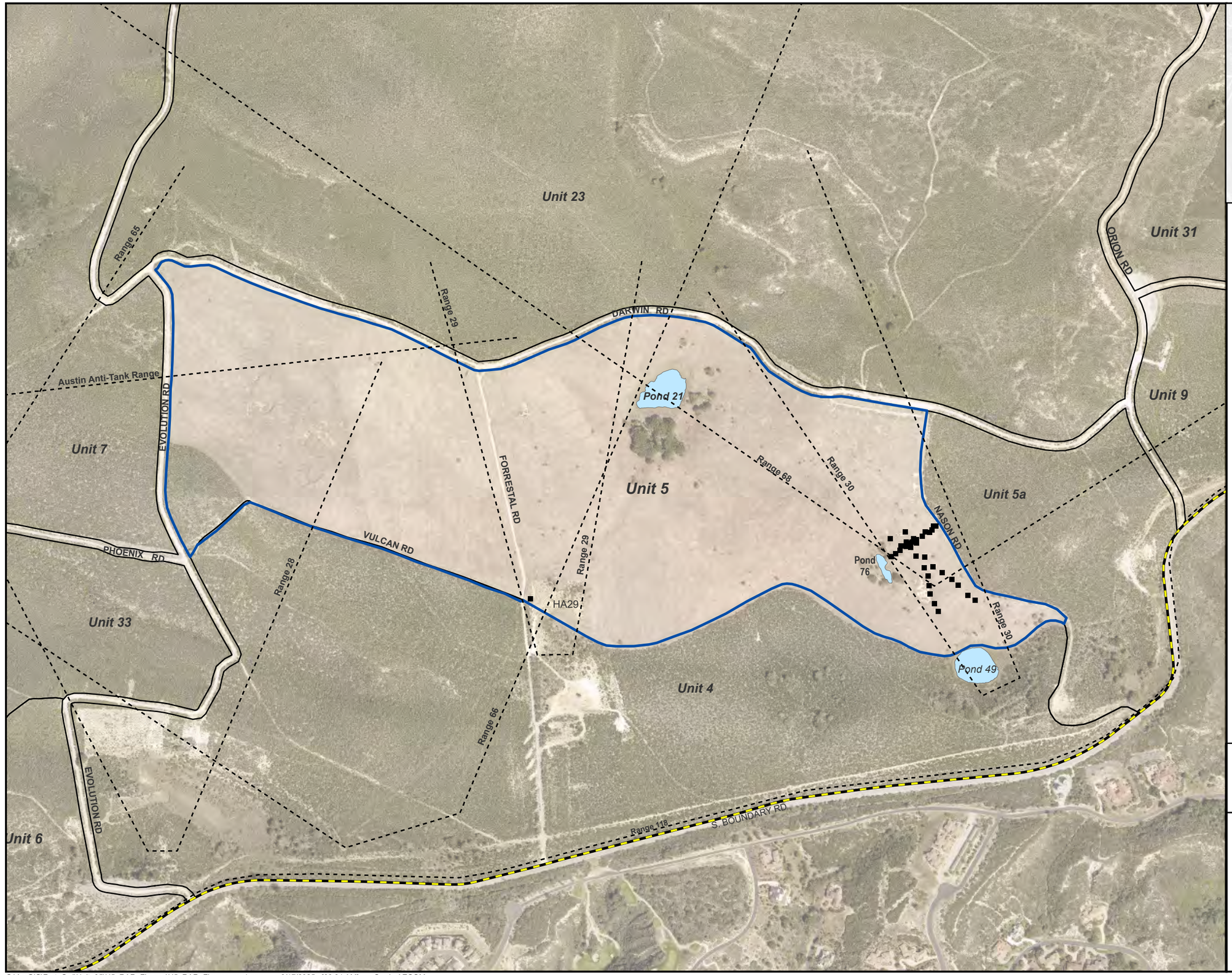
2,000 0 2,000 Feet

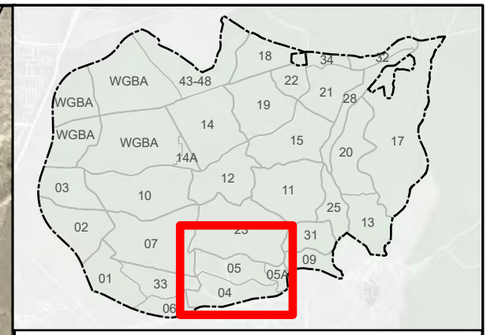
KEMRON ENVIRONMENTAL SERVICES

MRS-BLM Unit 5
Remedial Action Report
Former Fort Ord, California

Figure 1

Track 3 Impact Area MRA
Regional Location Map





Legend:

- Former Target Box (Concrete Vault)
- Range Fan (approximate)
- Pond
- Unit 5 Boundary
- Impact Area MRA

N

0 250 500 1,000 Feet

MRS-BLM Unit 5
Remedial Action Report
Former Fort Ord, California

Figure 2

Site Overview

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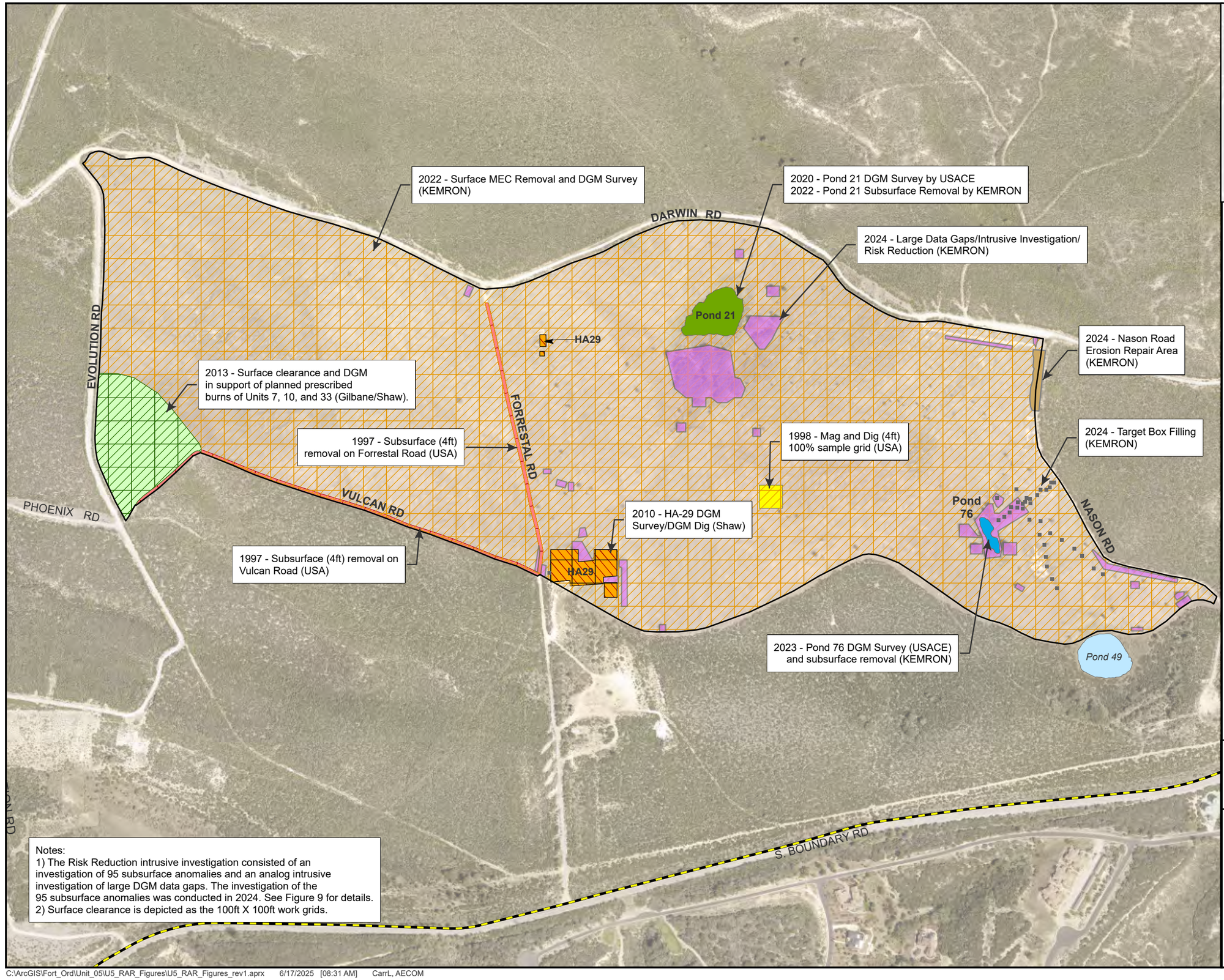

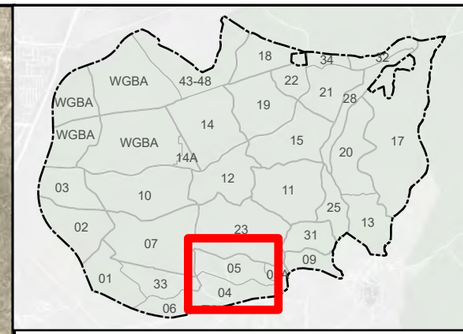

Legend:

Remedial Actions:

- DGM Dig - 2010 (Shaw) RI-047C
- DGM Survey - 2010 (Shaw) RI-047C
- Surface MEC Removal - 2013 (Gilbane) OE-0842
- DGM Survey - 2013 (Shaw) OE-0842
- Surface MEC Removal/DGM Survey - 2022 (Kemron) OE-1019A

Pond

- Pond 21 - DGM Survey* - 2021 (USACE) OE-1003
- Pond 76 - DGM Survey* - 2023 (USACE) OE-1028
- Large Data Gap-Risk Reduction Intrusive Investigation - 2024 (KEMRON) OE-1024B

Previous Munitions Response:

- OE Sampling, 100% (mag and dig, 4FT) - 1998 (USA) OE-0287A
- Subsurface Removal (4FT) - 1997 (USA) OE-0316
- Unit 5 Boundary
- Pond
- Nason Road Erosion Repair Area (not part of remedial action)
- Impact Area MRA Boundary
- Former Target Box/Concrete Vault (not part of remedial action)

N

0 200 400 800 Feet

MRS-BLM Unit 5
Remedial Action Report
Former Fort Ord, California

Figure 3

Remedial Action Overview

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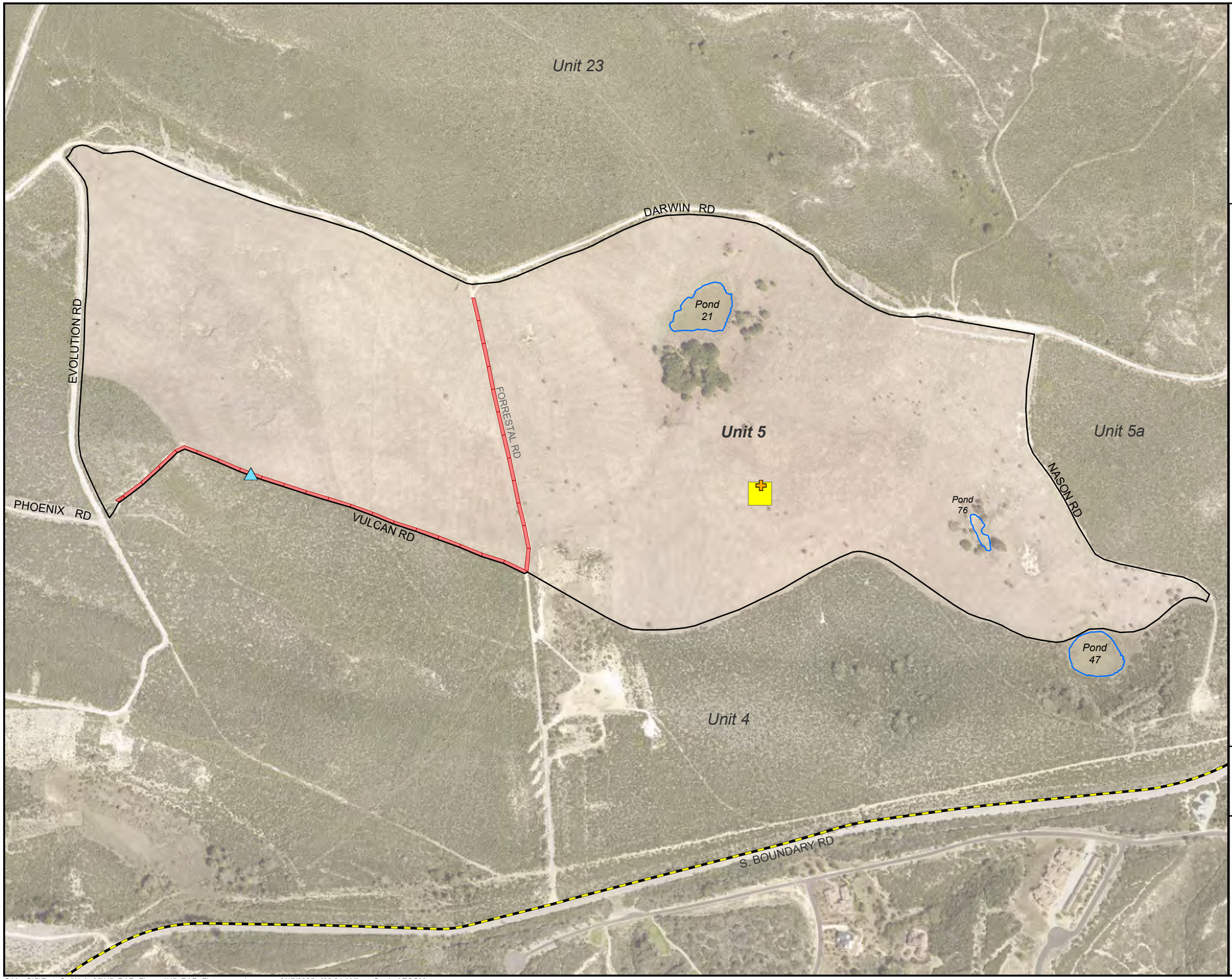

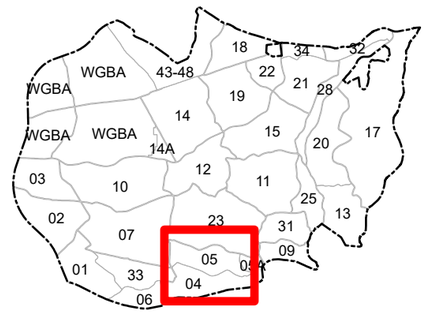

Legend

- Fuze, projectile, combination, M1907 (found on surface)
- Projectile, 75mm, high explosive, M48 (found on surface)

Previous Work (MR operations)

- OE Sampling, 100% (mag and dig, 4FT) - 1998 (USA) OE-0287A
- Subsurface Removal (4FT) - 1997 (USA) OE-0316
- Pond
- Unit 5 Boundary
- Impact Area MRA

Notes:
1) The full list of MEC can be found in Table 5 of the report.

2) MEC removed prior to remedial action is MEC that was removed during a munitions response prior to the signing of the Track 3 Record f Decision.

N

0 200 400 800 Feet

MRS-BLM Unit 5
Remedial Action Report
Former Fort Ord, California

Figure 4

MEC Removed Prior to Remedial Action

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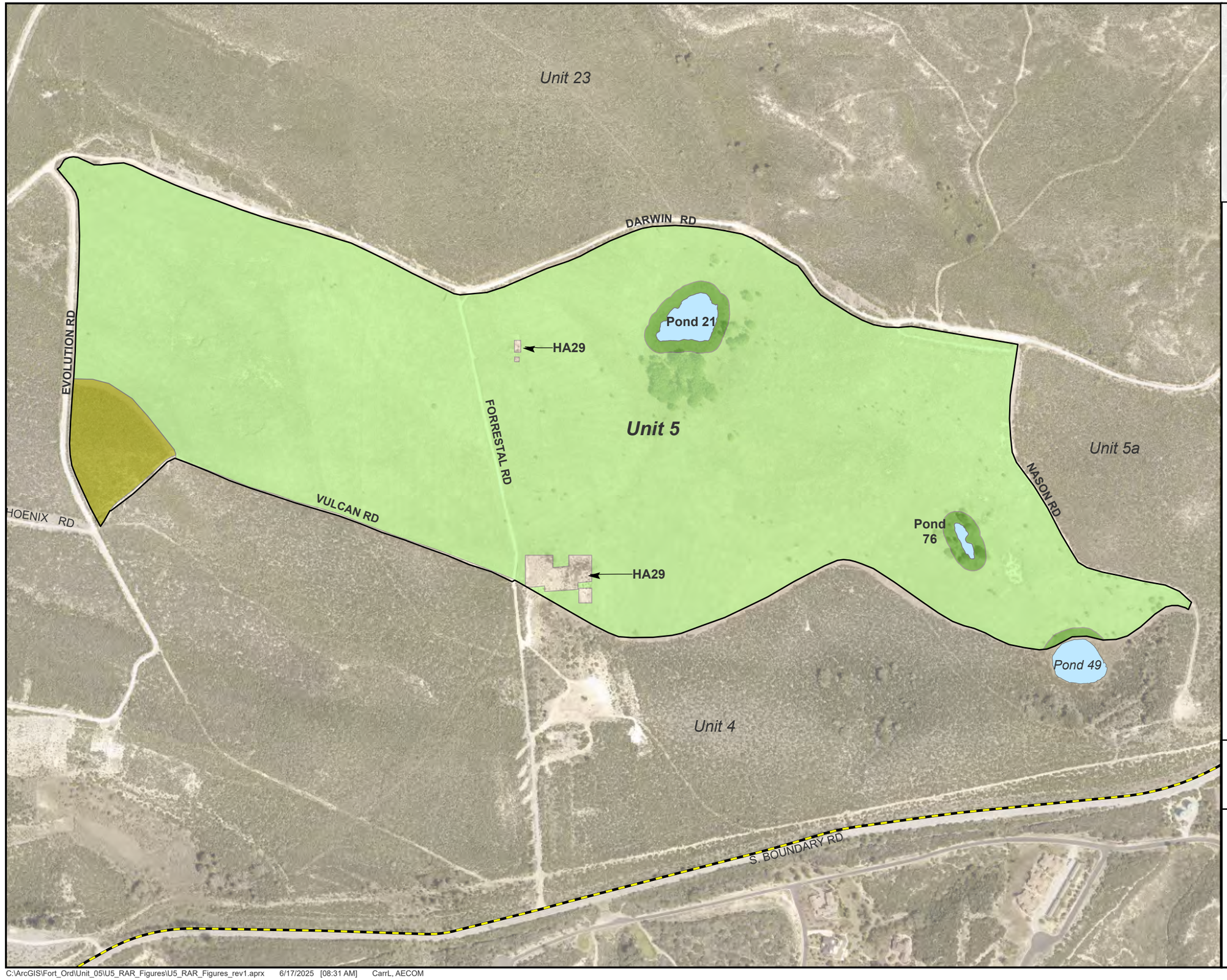

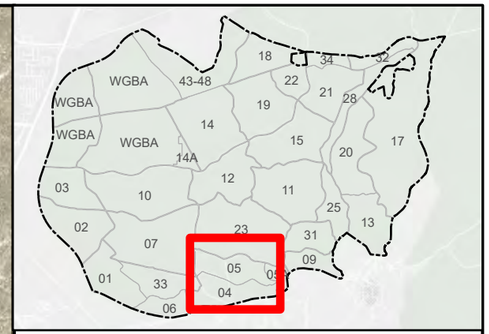

Legend:

- Mechanical Mastication (2021)
- Manual Mastication - Pond Buffer (2022)
- Mechanical Mastication (2013)
- Unit 5 Boundary
- Former Fort Ord Boundary
- Impact Area MRA

N

0 200 400 800 Feet

KEMRON ENVIRONMENTAL SERVICES

MRS-BLM Unit 5
MEC Remedial Action
Remedial Action Report
Former Fort Ord, California

Figure 5

Vegetation Clearance
Prior to Remedial Action

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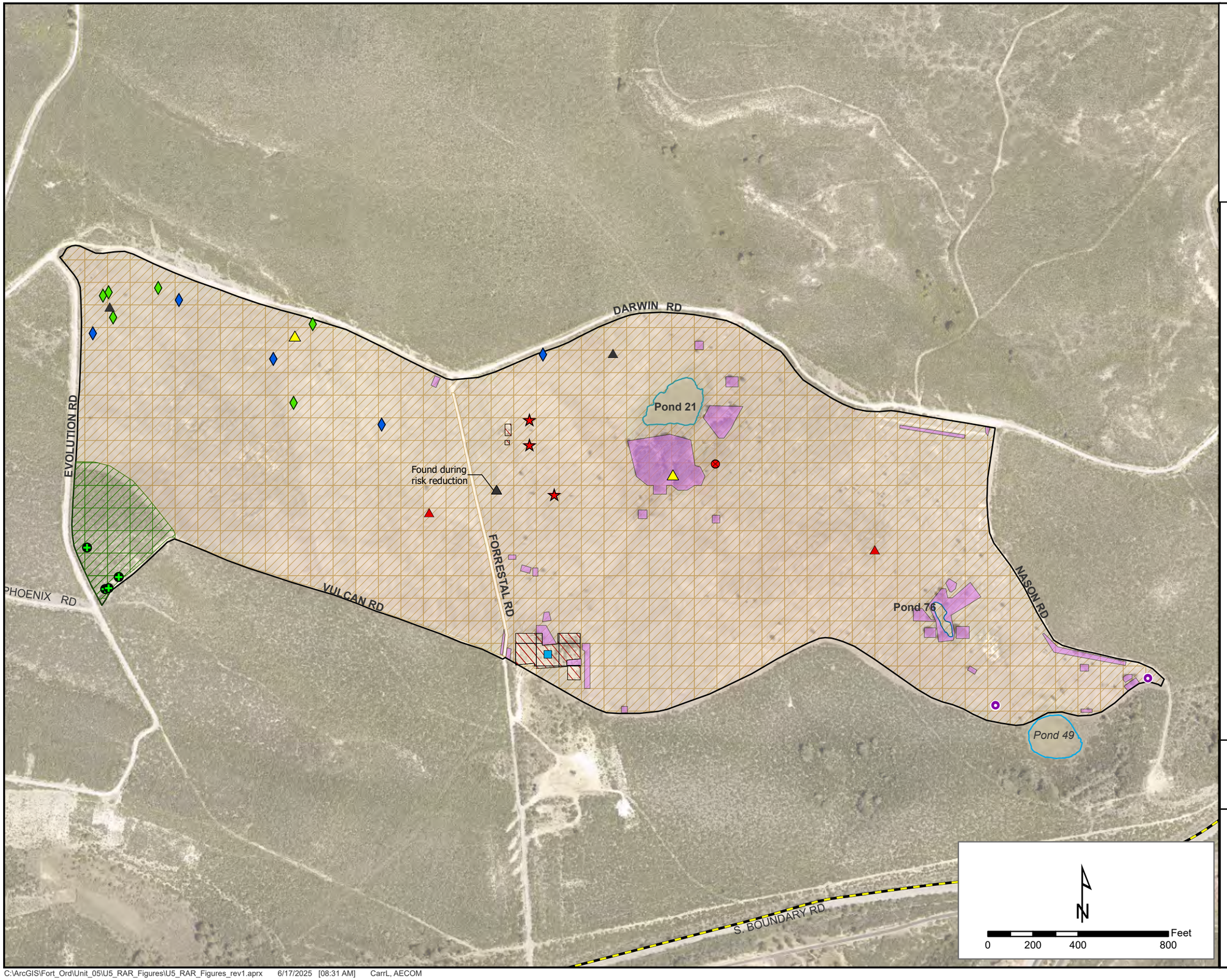

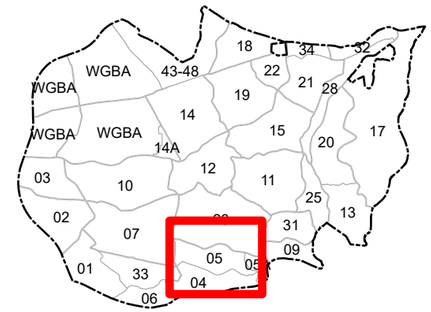

Legend

MEC Removed During Remedial Action:

- Grenade, hand, practice, M69
- Projectile, 37mm, low explosive, MK I
- Projectile, 37mm, low explosive, MK II
- Projectile, 40mm, high explosive, M383
- Projectile, 75mm, high explosive, M48
- Projectile, 75mm, high explosive, MK I
- Projectile, 75mm, shrapnel, MK I
- Projectile, 8inch, high explosive, M106 Series
- Rocket, 35mm, subcaliber, practice, M73
- Cartridge, 40mm, practice, M781 (see note #4)
- Surface MEC Removal - 2022 (KEMRON)
- Surface MEC Removal - 2013 (Gilbane) OE-0842
- DGM Dig - 2010 (Shaw) RI-047C
- Large Data Gap - Risk Reduction Intrusive Investigation
- Pond
- Unit 5 Boundary
- Impact Area MRA
- Former Fort Ord Boundary

Notes:

1) "Projectile, 8-inch, high explosive, M106 Series" was recovered by the UXO escort during vegetation removal (mastication) activities in November 2021.
2) The full list of MEC can be found in Table 5 of the report.
3) Subsurface removal was completed on Forrestal Rd, Vulcan Rd, 100'X100' sampling grid, and Ponds 21 and 76.
4) The location of item "Cartridge, 40mm, practice, M781" is estimated. The item was recovered from a soil stockpile located south of HA-29 outside the Unit 5 boundary, however, the item originated within the HA-29 soil remediation footprint within the Unit 5 boundary and is therefore considered a MEC item found within Unit 5 during the remedial action. Subsurface removal in HA-29 was complete. No MEC was found during subsurface removal after soil remediation.
5) The location of Projectile, 75mm shrapnel, MK1 is within a large data gap/risk reduction investigation area, however, it was recovered during the 2022 surface MEC removal.

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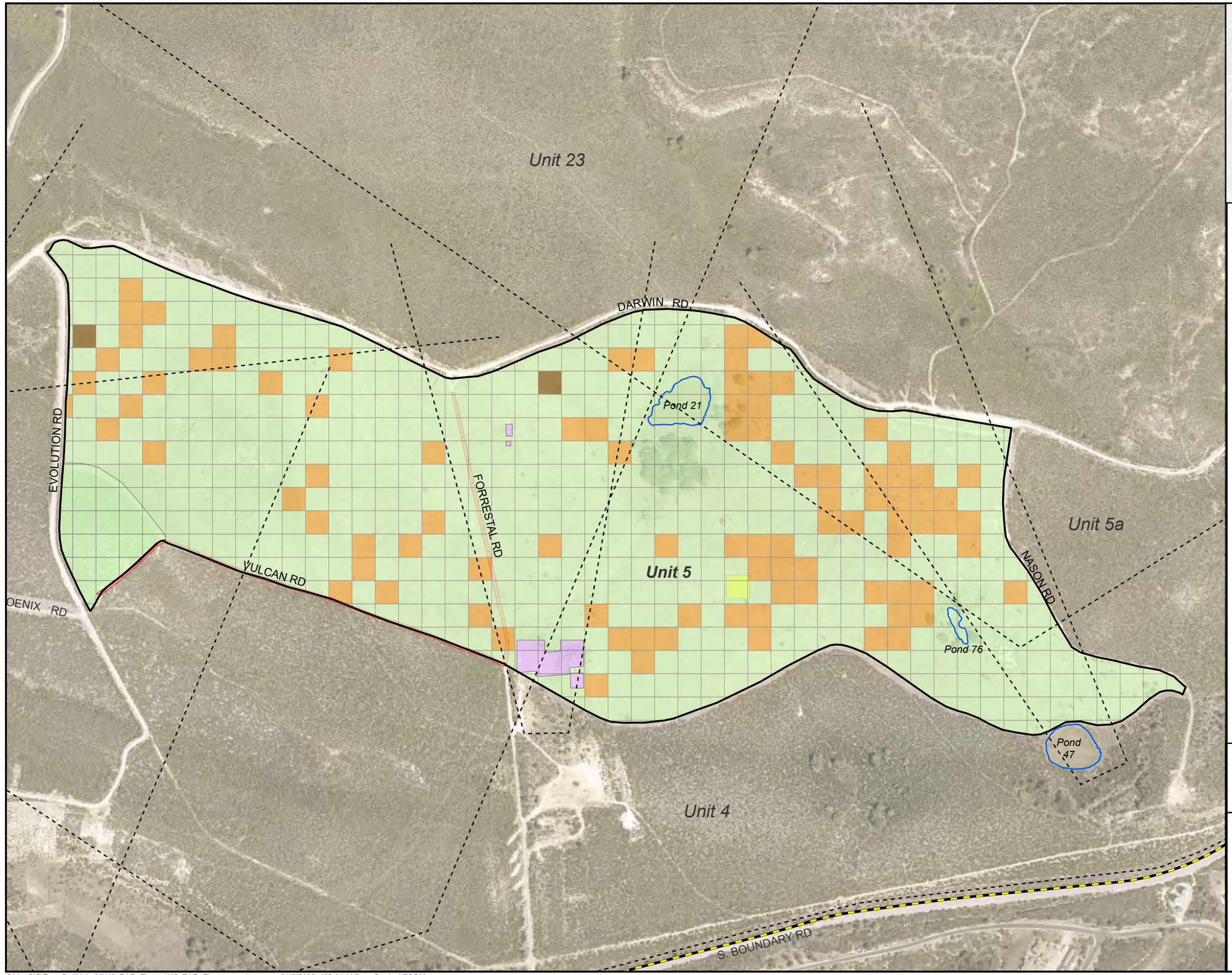
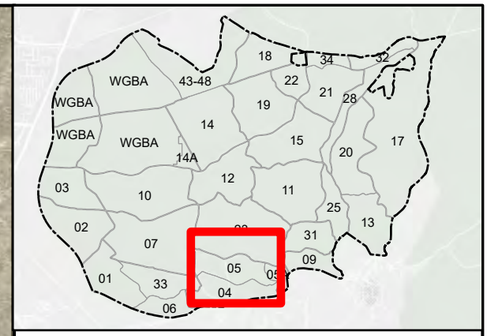
MRS-BLM Unit 5
Remedial Action Report
Former Fort Ord, California

Figure 6

MEC Removed During Remedial Action





Legend:

- Pond
- Unit 5 Boundary
- Impact Area MRA
- Former Fort Ord Boundary

MD Removed (lbs) During Surface Removal

- 0 - 10 lbs
- 11 - 25 lbs
- 26 - 63 lbs

Note:
1) Surface removal had been conducted in the SW corner of the unit and was reported prior to this action (OE-0842).

N

0 200 400 800 Feet

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MRS-BLM Unit 5
Remedial Action Report
Former Fort Ord, California

Figure 7

Weight of Surface MD Removed Per Grid

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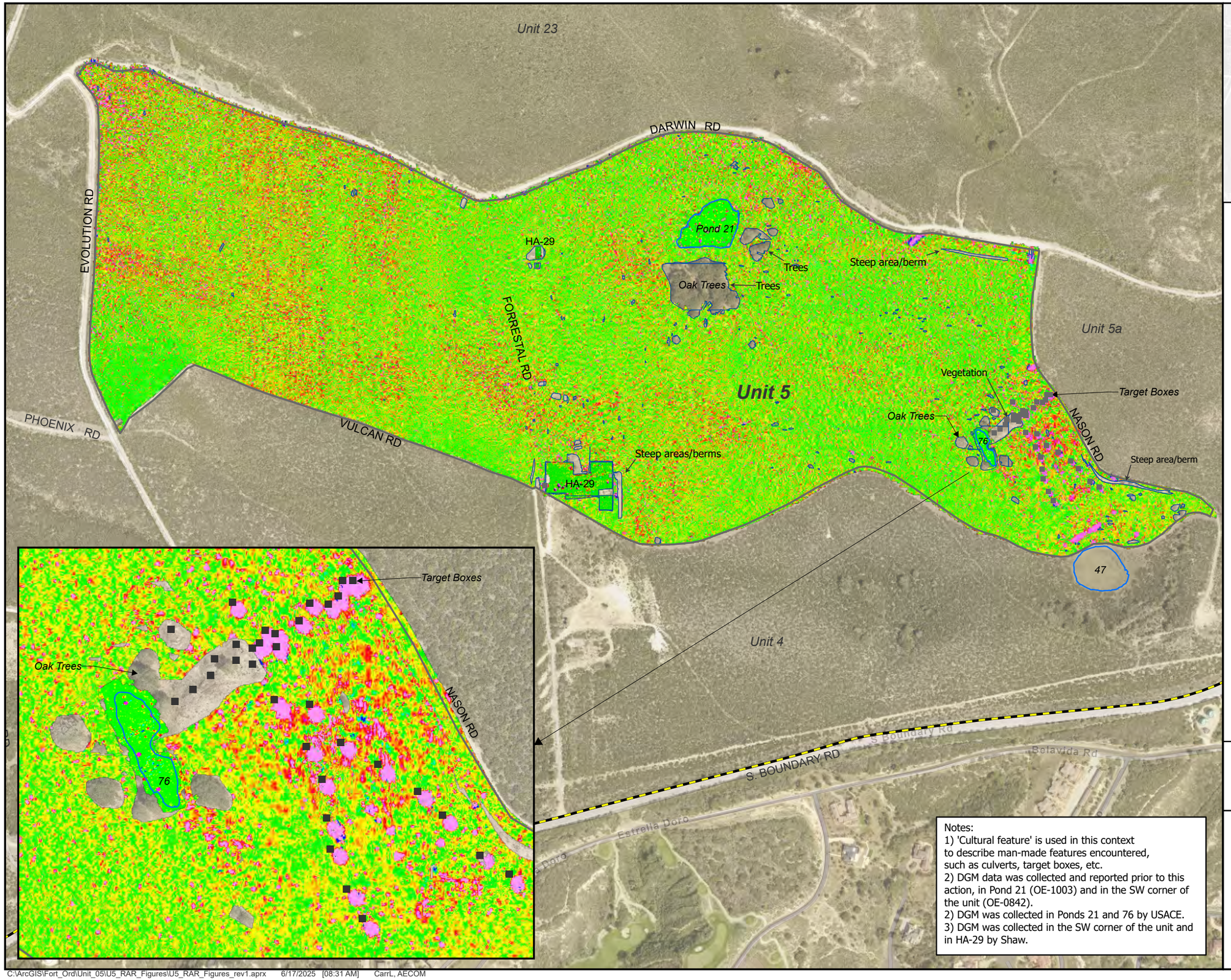
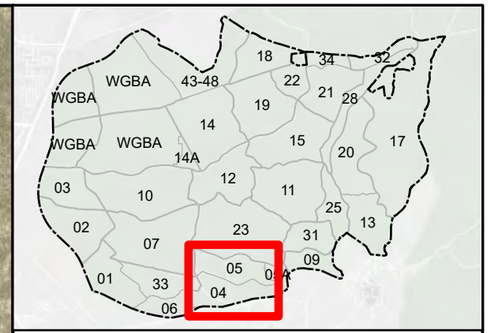
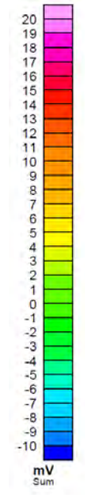




Legend

- Former Target Box (Concrete Vault)
- No DGM (previously completed area, vegetation, or cultural feature (see note 1))
- Unit 5 Boundary
- Pond Boundary
- Impact Area MRA

DGM Survey Response Value Scale



N

0 200 400 800 Feet

Notes:
1) 'Cultural feature' is used in this context to describe man-made features encountered, such as culverts, target boxes, etc.
2) DGM data was collected and reported prior to this action, in Pond 21 (OE-1003) and in the SW corner of the unit (OE-0842).
2) DGM was collected in Ponds 21 and 76 by USACE.
3) DGM was collected in the SW corner of the unit and in HA-29 by Shaw.

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MRS-BLM Unit 5
Remedial Action Report
Former Fort Ord, California

Figure 8

DGM Survey Results

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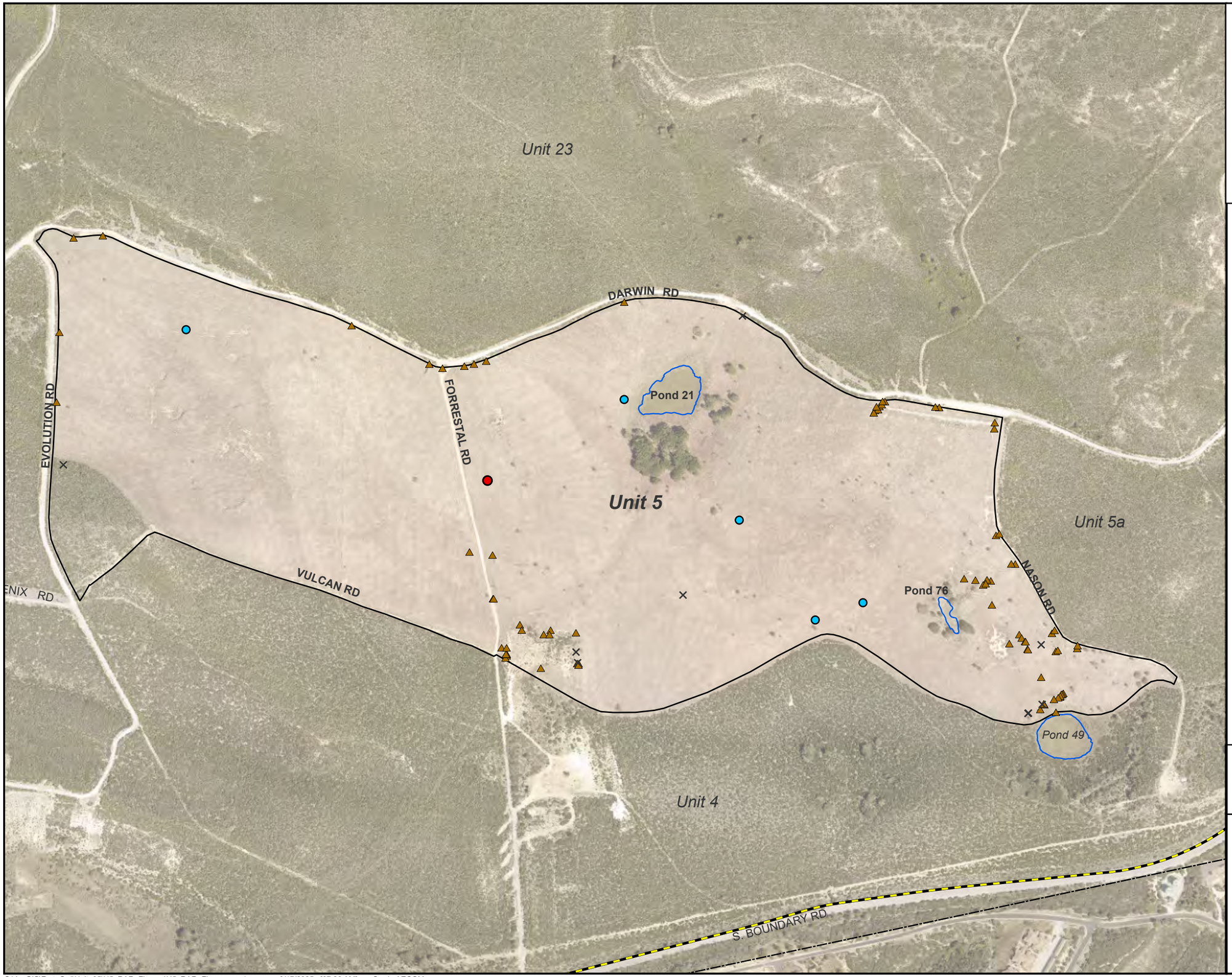

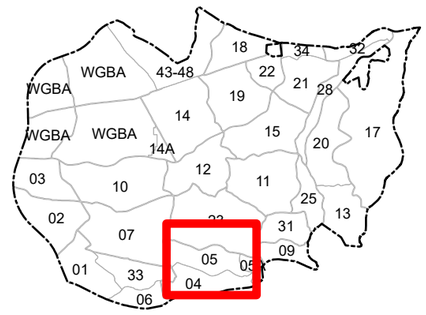

Legend

Risk Reduction Instrusive Investigation Results

- Unexploded Ordnance (UXO) - Projectile, 75mm, HE, M48
- Munitions Debris (MD)
- Cultural Debris (CD)
- False Positive
- Pond
- Unit 5 Boundary
- Impact Area MRA
- Former Fort Ord Boundary

Notes:
1) See Table 8 for intrusive investigation result details.

2) The UXO item (Projectile, 75mm, HE, M48) was initially classified as MPPEH, but was re-classified after the completion of demolition operations that occurred on 7/23/2024, as a live item (UXO).

3) The 95 subsurface anomaly/targets selected met the EM61-MK2 anomaly response characteristics of a 155mm projectile or larger munitions item within two feet below ground surface (i.e., an EM61-MK2 channel 3 response amplitude greater than 114 mV). Details can be found in Section 6.3.4 of the report.

N

0 200 400 800
Feet

MRS-BLM Unit 5
Remedial Action Report
Former Fort Ord, California

Figure 9

Risk Reduction
Intrusive Investigation Results

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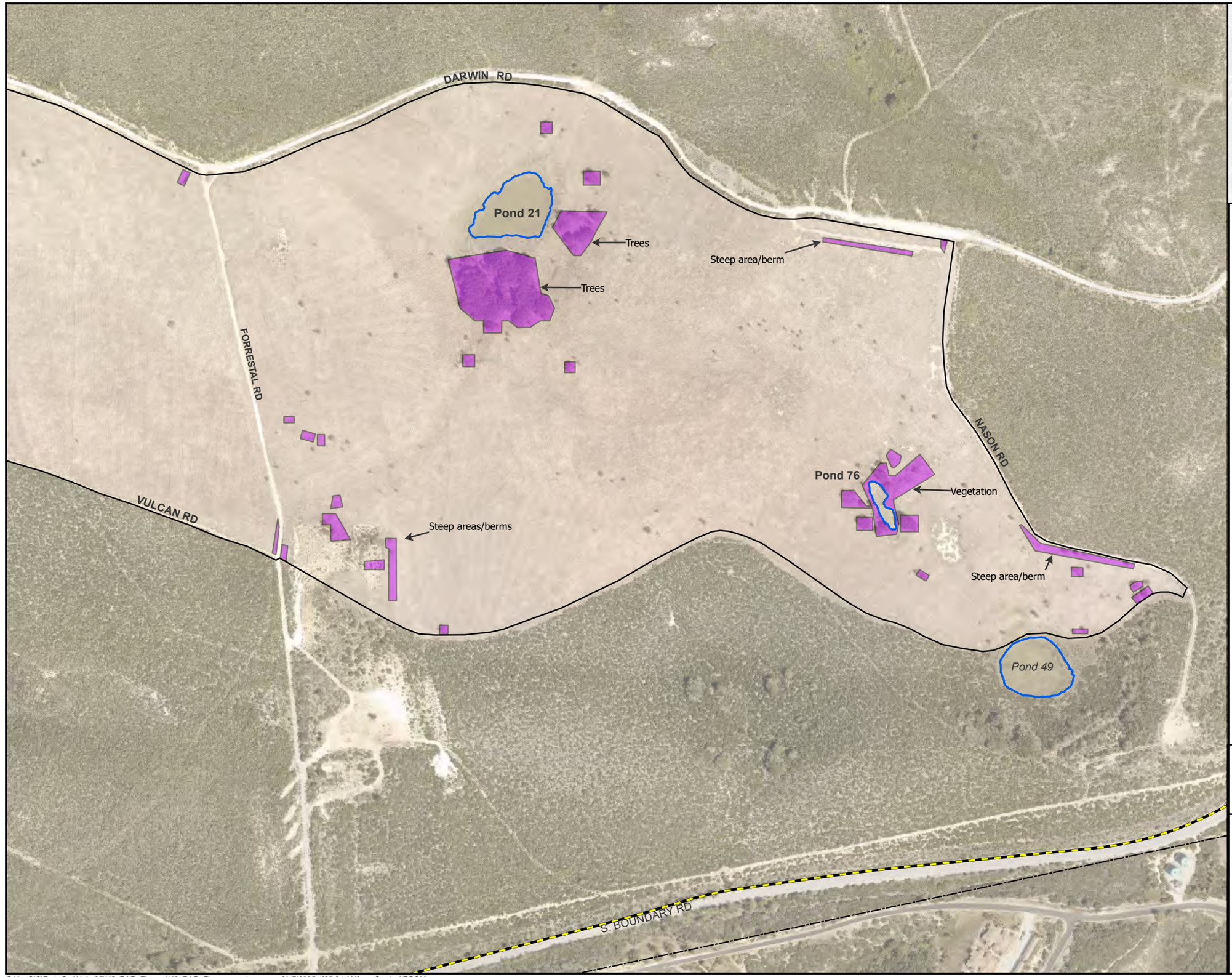

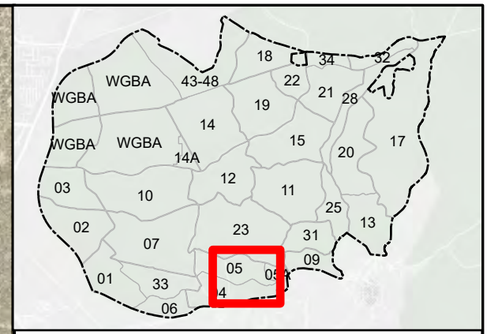

Legend:

- Pond
- Unit 5 Boundary
- Former Fort Ord Boundary
- Impact Area MRA
- Large Data Gaps - Intrusive Investigation/Risk Reduction

Notes:

1) Large data gaps were investigated July 2 through July 12, 2024.

2) Risk reduction - the large data gap areas were investigated utilizing a single EM61-MK2A unit in analog mode. The EM61-MK2 was then maneuvered across each gap in a series of parallel, overlapping transects while monitoring the data logger for anomalies consistent with the response of a 155mm projectile up to two feet below the ground surface (114 mV in Channel 3).

3) For investigation results, see Table 8 - "Risk Reduction Intrusive Investigation Results"

4) No MEC was encountered during this investigation.

N

0 150 300 600 Feet

MRS-BLM Unit 5
Remedial Action Report
Former Fort Ord, California

Figure 10

Large Data Gaps/Risk Reduction

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Appendices

Appendix A

MRS-BLM Unit 5 MEC Remedial Action
Technical Memorandum
Former Fort Ord, California

Prepared for:

U.S. Army Corps of Engineers
Sacramento District
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Sacramento, California 95814-2922

Prepared by:

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May 2023

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1.0 Introduction

This Technical Memorandum (TM) describes and summarizes the munitions response within Munitions Response Site (MRS) - Bureau of Land Management (BLM) Unit 5 (Figure 1). The selected remedy, as described in *Final Track 3 Record of Decision, Impact Area Munitions Response Area, Track 3 Munitions Response Site, Former Fort Ord, California* (Track 3 ROD; Army, 2008), Technology-Aided Surface Munitions and Explosives of Concern (MEC) Remediation with Subsurface MEC Remediation in Selected Areas and Land Use Controls, constitutes the munitions response required for MRS-BLM Unit 5. The work was performed by KEMRON Environmental Services (KEMRON), with AECOM and NAEVA Geophysics as subcontractors, and was performed in accordance with the *Addendum to Final Work Plan, MRS-BLM Units 1-5, Munitions and Explosives of Concern Removal, Former Fort Ord, California, Unit 5* (KEMRON, 2022). The work consisted of vegetation removal, technology-aided surface munitions and explosives of concern (MEC) removal, subsurface anomaly investigation and MEC removal, and digital geophysical mapping (DGM). Field work was initiated in November 2021 (vegetation mastication) and was completed in November 2022 (digital geophysical mapping [DGM]).

1.1 Purpose

The *Final Work Plan, Remedial Design/Remedial Action (RD/RA), Track 3 Impact Area MRA, Former Fort Ord, California* (U.S. Army Corps of Engineers [USACE], 2009) specifies that the U.S. Department of the Army (Army) will prepare a TM for the U.S. Environmental Protection Agency (EPA) and California Department of Toxic Substances Control (DTSC) to present a review of the results of both the surface remediation and the DGM data collection.

This TM was prepared in accordance with *Final Track 3 Record of Decision, Impact Area Munitions Response Area, Track 3 Munitions Response Site, Former Fort Ord, California* (Track 3 ROD; Army, 2008), which describes:

"Each phase will include a technology-aided surface MEC removal followed by digital geophysical survey. The Army, after reviewing the results of both the surface removal and the survey data, will prepare a Technical Memorandum for EPA and DTSC. This memorandum will provide an evaluation of the work completed to date and if necessary, describe additional removal recommended based on the evaluation. When evaluating whether additional removal is recommended, the Army will consider, among other factors: (1) explosive hazards associated with MEC so far recovered; (2) the proximity to potential receptors; (3) the density of MEC recovered; and (4) consistency with Applicable or Relevant and Appropriate Requirements (ARARs) (e.g., HMP and Biological Opinions). Generally, the recommended

additional removal will be implemented prior to the next growing season for the CMC [central maritime chaparral] habitat; subsurface MEC removal beyond that timeframe would likely result in significant impacts to rare, threatened and endangered species that exist in the CMC which would have just [begun] the process of natural re-growth after prescribed burning. If additional work is not recommended, the Army will document this fact and its rationale in the Technical Memorandum.

Because each Technical Memorandum will be an addendum to the site-specific work plan, which is a primary document under the Federal Facility Agreement (FFA), it will be disputable. To avoid impacts to rare, threatened and endangered species, completion and agency approval of the Technical Memorandum will be expedited to allow any additional actions to be completed before the next growing season. These Technical Memorandums and associated correspondence will be included in the Administrative Record. The Technical Memorandums will be provided for regulatory agency (EPA and DTSC) review and are subject to EPA approval (in consultation with DTSC). The Army will coordinate the Technical Memorandum with the future landowner identified at the time of its preparation."

This TM provides the following information:

- Scope of work/remedial work completed at Unit 5 (Section 2.0).
- Approved changes during field work (Section 3.0).
- Summary of MEC and munitions debris (MD) (Section 4.0) removed from Unit 5 during technology-aided surface MEC removal activities.
- DGM evaluation and discussion (Section 5.0).
- Quality Control/Quality Assurance (Section 6.0).
- Observation of evidence of potential soil contamination for evaluation under the Site 39/Basewide Range Assessment (BRA) Program (Section 7.0)
- Recommendations for additional subsurface MEC remediation within Unit 5, either specific to portions of the site or as a whole (Section 8.0).
- Environmental Protection (Section 9.0)
- Conclusions/Summary of Recommendations (Section 10.0) for Unit 5, either specific to portions of the site or as a whole.

1.2 Site Location

Fort Ord is located in northwestern Monterey County, California, approximately 120 miles south of San Francisco. The Impact Area MRA consists of approximately 6,560 acres in the southwestern portion of the former Fort Ord. Figure 1 provides a regional location map and highlights the location and surrounding areas of Unit 5. Unit 5 is approximately 130 acres and is in the southern portion of the MRA, within the MRS-BLM. Unit 5 is bounded by Darwin Road to the North, Nason Road and Unit 5A to the East, Vulcan Road and Unit 4 to the South, Unit 7 and Evolution Road to the West (Figure 2). Darwin Road and Evolution Road are regularly maintained fuel breaks. It should be noted that Vulcan Road and Nason Road are not part of the regularly maintained fuel break system.

1.3 Vegetation and Habitat Type

Central maritime chaparral (CMC) is the dominant habitat type within the project area. CMC is a dominant habitat type at Fort Ord and is identified as a protected plant community in the *Installation-Wide Multispecies Habitat Management Plan (HMP) Former Fort Ord, California* [HMP; U.S. Army Corps of Engineers (USACE), 1997]. This habitat supports approximately 50 to 85% of the total distribution of several rare, threatened, and endangered plants occurring at Fort Ord, which are designated as protected under the HMP. Other habitats present include limited areas of coast live oak woodland, coastal scrub, and two vernal ponds (Ponds 21 and 76).

The dominant shrub species observed within the project area during the baseline monitoring include shaggy-barked manzanita (*Arctostaphylos tomentosa* ssp. *tomentosa*), chamise (*Adenostoma fasciculata*), Monterey ceanothus (*Ceanothus rigidus*), sandmat manzanita (*A. pumila*), poison oak (*Toxicodendron diversilobum*), and black sage (*Salvia mellifera*). These shrub species contribute most of the overall vegetative cover. HMP-listed shrub species present include Toro manzanita (*A. montereyensis*), Hooker's manzanita (*A hookeri*), sandmat manzanita, Monterey ceanothus, and Eastwood's goldenbush (*Ericameria fasciculata*). Baseline studies conducted in 2015 identified the presence of one HMP annual plant species, Monterey spineflower (*Chorizanthe pungens* var. *pungens*) (Burleson Consulting, 2016). Yadon's piperia was identified within or near the site between 2010 and 2019 along the fuel breaks on Darwin and Evolution Roads. Two HMP wildlife species have the potential to occur within the project site, black legless lizard (*Anniella pulchra* ssp. *nigra*) and California tiger salamander (CTS; *Ambystoma californiense*); however, neither species was encountered during project activities. The project site is within the Natural Resource Management Area which is designated for transfer to BLM and will remain undeveloped as habitat reserve. Chapter 3 of the HMP (USACE, 1997) describes mitigation measures that must be implemented during MEC investigation and remediation. In addition, the *Reinitiation of Formal*

Consultation for Cleanup and Property Transfer Actions Conducted at the Former Fort Ord, Monterey County, California. (2017-F-0094) [Programmatic BO; U.S. Fish and Wildlife Service (USFWS) 2017] contains terms and conditions and reasonable and prudent measures that need to be implemented during MEC activities to minimize and reduce impacts to listed species.

2.0 Scope of Work

The scope of work for the project addressed in this TM included vegetation clearance, technology-aided surface MEC removal (which includes MEC and MD), subsurface MEC removal, and DGM. Subsurface anomaly investigation/MEC removal was only performed in Pond 21 and was done as described in the Unit 5 SSWP Addendum (KEMRON, 2022). Previous munitions response actions, including surface and subsurface MEC removal and DGM, and occurred in certain portions of the unit prior to this remedial action. The total area of the unit is 130 acres and total area of previous remedial actions is 6.7 acres (Figure 2). During this remedial action, work was not performed in 4.89 acres of areas that had prior remedial work. This includes the southwest corner of the unit (completed in 2013) which is 3.93 acres, and HA-29 which is 0.96 acres. The total surface removal area was 124.7 acres, which included areas previous work areas Forrestal Road, Vulcan Road, 100' Sample Grid, and Pond 21. The total DGM survey area was 123.7 acres, and included previous remedial work areas Forrestal Road, Vulcan Road, and 100' Sample Grid. A summary of these previous remedial actions can be found in Table 1 and are shown on Figure 2.

Field activities for this Remedial Action are as follows (details can be found in Table 2):

- Vegetation Clearance
- Surface MEC Removal
- Digital Geophysical Mapping (DGM)
- Subsurface MEC Removal in Pond 21

2.1 Vegetation Clearance

Vegetation clearance occurred in Unit 5 from November through December 2021. No vegetation removal was required in areas where previous remedial work was performed. A total of 122.8 acres were cut, the majority of this accomplished via mechanical mastication, 119.4 acres, while the vegetation surrounding vernal ponds, and trees were completed via manual mastication (hand cutting) totaled 3.4 acres. Trees required "limbing", which is manually removing limbs and branches up to 8 feet above the ground, to provide safe clearance for teams performing future work in the area. The areas around the ponds and sensitive habitat areas were identified and flagged by the Project Biologist prior to the start of field activities. The mechanical mastication was performed by Woolery Timber Management, and the manual mastication was completed by High Sierra Fire. Biological monitoring support was provided by Denise Duffy & Associates.

On November 19, 2021, during mechanical mastication, the unexploded ordnance (UXO) escort encountered a material potentially presenting an explosive hazard (MPPEH) item which was later

determined by UXO qualified personnel to be MEC after a consolidated detonation (Projectile, 8-inch, high explosive, M106 Series). The item location was recorded, and then the item was relocated to the Explosive Storage Location (ESL).

2.2 Technology-Aided Surface MEC Removal

Technology-aided surface MEC removal, included in this remedial action scope, started on July 18, 2022, and was completed on September 22, 2022. The intent of the surface MEC removal as twofold: 1) to remove surface MEC and 2) to remove metallic debris, including munitions debris (MD), range-related debris (RRD), and other debris that could impact the DGM survey results. Work grids were staked out based on the established Fort Ord project 100 ft X 100 ft grid system, and grids adjacent to the unit boundary (or other features) were drawn to coincide with the boundary or features. Therefore, these grids did not have an exact dimension of 100 ft X 100 ft (Figure 3). In each grid, lanes approximately five feet in width were set up and Schonstedt magnetometers were used by UXO personnel to conduct technology-aided surface MEC removal.

Technology-aided surface MEC removal was performed on a total of 627 out of 627 grids, which amounted to 124.7 acres. Surface removal was performed in Ponds 21 and 76, Forrestal Road, portions of Vulcan Road (up to where the unit boundary intersected with the road), and the 100'X100' sample grid. Surface removal was not performed in the southwest corner of the unit (where work was performed in 2012-2013) and in HA-29 (all three areas). A total of 23 MEC items were recovered (Table 5 and Figure 3) - 22 during surface removal and 1 during vegetation mastication (as previously stated in Section 2.1). Twenty-one of these MEC items received a final classification of UXO, and 2 MEC items received the classification of DMM (refer to Table 7 for a summary of removal quantities). Surface MEC removal was also completed in the target boxes that were encountered in the southeast portion of the unit. Prior to this RA, 6 MEC (UXO) items were recovered from Unit 5 and are shown and listed on Figure 2.

Quality control/quality assurance (QC/QA) processes were implemented in accordance with the Unit 5 SSWP Addendum (KEMRON, 2022) and the *Final Quality Assurance Project Plan, Volume II, Appendix A, Munitions and Explosives of Concern Remedial Action, Former Fort Ord, California* (MEC QAPP) (KEMRON, 2016).

2.3 Digital Geophysical Mapping Survey

The DGM survey was conducted with a vehicle-towed EM61-MK2A array starting on September 12, 2022 and was completed on November 23, 2022. DGM was performed for all of Unit 5 except for areas previously completed and those areas where large permanent obstacles precluded access to the towed array.

A total of 626 out of 626 grids, equaling 123.7 acres, were surveyed. DGM was completed on Forrestal Road, Vulcan Road (portions where the unit boundary intersected the road), and the 100'x100' sampling grid. Figure 5 provides an image of the final contoured geophysical data. Since Pond 21 had been previously mapped by USACE using a hand-towed EM61-MK2A, it was not included in the scope of the towed array DGM survey. The difference in acreage between DGM and surface clearance (DGM was 123.7 acres, surface removal was 124.7 acres) is because DGM was not performed in Pond 21 and Pond 76 during this remedial action, while surface removal was. The sum area of the ponds is approximately 1 acre. The difference in the quantity of DGM grids surveyed compared to the surface removal grids count (626 for DGM and 627 for surface clearance) is because one grid (A2G0J9) is fully within Pond 21 and was not touched by the DGM survey. Additionally, Pond 76 is intended to be mapped using a hand-towed EM61-MK2A at a later date and so was not covered by the towed array survey. There was a total of 3.2 acres of DGM data gaps. Data gaps within Unit 5 primarily resulted from the presence of uncut trees within the Unit, including large stands of trees to the south and east of Pond 21 and on all sides of Pond 76. The majority of the smaller documented gaps in DGM coverage resulted from the presence of single trees widely spaced throughout the Unit along with steep slopes adjacent to Darwin Road and Nason Road. The target boxes located in the southeast portion of the Unit were generally of a small enough size that they could be straddled by the towed array during collection, but there were several that had to be avoided resulting in documented DGM coverage gaps. It should also be noted that the reinformed concrete composition of the target boxes resulted in high EM61 response values in their immediate vicinities. While this does not negatively impact the usability of the data, it does inhibit the ability to evaluate the areas adjacent to and under the boxes for the presence of additional metallic objects, such as potential MEC.

Measurement quality objectives (MQOs) were achieved, and QC/QA processes were implemented in accordance with the Unit 5 SSWP Addendum (KEMRON, 2022) and the MEC QAPP (KEMRON, 2016). Measurement performance criteria were evaluated according to the standards specified in the MEC QAPP and the Final SSWP. Specific criteria that were evaluated included GPS accuracy, static background and response tests, dynamic background and response tests (as demonstrated at the instrument verification strip (IVS)), velocity, minimum along track sampling and across track coverage, accurate detection of Blind Seeds with respect to both response and positioning, surveillance of field methods, and reprocessing of field data. Each of these criteria were evaluated separately with results recorded in the project database and subsequently reviewed by the QC Geophysicist. Appendix A includes the DGM QC results, and Appendix C includes the USACE DGM QA Approval and Discussion for Unit 5.

2.4 Geophysical Anomaly Investigation in Pond 21

A DGM survey was conducted by a USACE geophysicist in November 2020 to identify anomalies potentially representing MEC items in the subsurface of Pond 21 (USACE, 2021). Targets were selected from the SUM channel (arithmetic sum of EM61 channels 1-4) with a response threshold of 14 mV, consistent with the Unit 5 SSWP Addendum (KEMRON, 2022), the MEC QAPP (KEMRON, 2016), and previous geophysical anomaly investigations performed at Fort Ord. A subsurface removal at the targeted anomaly locations was planned to reduce risk to biologists who may conduct biological surveys in the pond in the future. Subsurface MEC removal in Pond 21 was performed from September 19 through September 21, 2022 (Figure 6) utilizing the procedures described in the Unit 5 SSWP Addendum (KEMRON, 2022). Eighty targets were reacquired and investigated within the 0.85-acre footprint of the pond. A total of 5 locations were excavated, ranging in depth from 1-inch to 22-inches, with 0.5 lbs of MD and 0.25 lbs of "Other-SSA" (small arms, 50cal) recovered. Each excavation was approximately 10-12-inches in diameter. As requested by the on-site USACE geologist, one anomaly was excavated to 22-inches, which exceeded the maximum depth of 18-inches per the SSWP addendum, and another anomaly was excavated to 18-inches. No metallic items were found and there was no further response from the instrument (EM61 in analog mode) at either location. A list of the investigation results is presented in Table 6.

Data gaps in Pond 21 consisted of bushes that were not removed due to biological constraints and line spacing deviations where the across-track coverage metric was not achieved. Included in the line spacing deviation gaps was the large gap in the western portion of the site mentioned in the USACE report on the DGM data collection (USACE, 2021). All data gaps were investigated using the EM61 in analog mode which consisted of slowly maneuvering the instrument over the extents of the data gap while monitoring the display for responses in excess of the target selection threshold. All anomalous responses that were identified in this way were intrusively investigated and resolved. In the data gap areas, a total of 15 intrusive investigations were made to 18-inches in depth, recovering 11.25 lbs. of MD. No MEC was encountered during the subsurface removal activity in Pond 21.

3.0 Approved Changes During Field Work

During execution of field work, unforeseen circumstances or events may arise that require modification to field work procedures. A Field Work Variance (FWV) documents any required modifications to field work. During the Unit 5 remedial action, all work was performed in accordance with the *Addendum to Final Work Plan, MRS-BLM Units 1-5, Munitions and Explosives of Concern Removal, Former Fort Ord, California, Unit 5* (KEMRON, 2022) with no unforeseen circumstances or events arising, and therefore no FWVs were issued.

It should be noted that DGM data was not collected in Pond 76, which is a variance from the Unit 5 SSWP Addendum (KEMRON, 2022). The USACE plans to do a DGM survey in Pond 76 when site conditions permit.

4.0 Summary of MEC/MD Removed

Twenty-three surface MEC items were encountered and removed as part of MEC remediation activities described in this TM. These items are listed in Table 5 below and are shown on Figure 3. As previously described, and as noted in the SSWP (KEMRON, 2022), there were multiple items considered MPPEH found during vegetation cutting. All but one were determined to be MD after further evaluation. The one MPPEH item (later determined to be MEC) was encountered and relocated by the UXO escort during mastication (Projectile, 8-inch, high explosive, M106 Series). During surface removal, 3 MEC items with sensitive fuzes (Projectile, 40mm, high explosive, M383) were encountered just east of Forrestal Road and were disposed of via blow-in-place detonation in accordance with the SSWP. Upon the conclusion of the Unit 5 field work, a consolidation detonation was performed with the MEC items found in Unit 5 that had been placed in the ESL. Of the 23 MEC items recovered, 21 were designated as UXO, and 2 were designated as DMM.

The MD removed from Unit 5 as part of MEC remediation activities described in this TM was recorded based on weight per work grid. An estimated 4,346 pounds of MD were removed. The density of MD weights by grid is shown on Figure 4. Recovered MD was inspected and stored in a designated location. In accordance with the standard procedures described in the MEC QAPP (Kemron, 2016), MD was inspected by a UXO team (UXO Tech III and Tech II) under the supervision of the SUXOS and secured. After completing the additional work in Unit 5, MD will be certified and transported off- site for disposal.

Additionally, range-related debris (RRD) was removed as part of MEC remediation activities described in this TM and were recorded based on weight per work grid. An estimated 3,019 pounds of RRD were removed as part of MEC remediation activities.

5.0 Digital Geophysical Mapping Evaluation

The DGM data collection effort achieved full coverage of Unit 5, with the exception of documented data gaps that were inaccessible to the towed array platform. The largest data gaps were due to large stands of uncut trees adjacent to Pond 21 and the recently identified Pond 76. Smaller gaps, interspersed throughout the Unit, resulted from the presence of single trees and steep slopes that could not be traversed by the DGM tow vehicle. There was a total of 3.2 acres of data gaps.

One component of the DGM evaluation was to perform a Data Assessment and Anomaly List Development for large subsurface munitions within the MRS. The purpose of the Data Assessment was to identify subsurface anomalies within Unit 5 that are potentially related to large, near-surface ordnance items which may pose a risk to ground and air personnel during future prescribed burns in Unit 5. Two target lists were developed in the course of preparing the Data Assessment. The first target list was created using a threshold of 114 mV which represents the response of a horizontal 155mm projectile two feet below the ground surface. The second target list was created using a threshold of 446 mV which represents the response of a horizontal 155mm projectile one foot below the ground surface. A total of 95 targets were identified with response characteristics consistent with a large munitions item within two feet of the surface. Of those 95 targets, 31 exhibited response characteristics consistent with a large munitions item within one foot of the surface. A full discussion of the Data Assessment can be found in Appendix E - *MRS-BLM Unit 5 MEC Remedial Action – DGM Data Assessment and Anomaly List Development* (KEMRON, 2023).

6.0 Quality Control/Quality Assurance

QC is conducted by the Contractor concurrent with field work. All QC measures were conducted by the Unexploded Ordnance Quality Control Specialist (UXOQCS) and by the QC Geophysicist. A discussion of the pertinent QC measures and procedures is included in the following sections. All QA measures were performed by USACE's Ordnance and Explosives Safety Specialist (OESS) and by the QA Geophysicist. The DGM Data QA Report is provided as Appendix C.

During surface removal operations in Unit 5, the UXOQCS was responsible for visually observing teams and conducting periodic spot checks to ensure grids were receiving complete coverage during the surface removal phase. The UXOQCS performed analog QC survey of at least 10% of completed surface MEC removal grids. All grids passed 10% analog QC surveys performed by the UXOQCS.
Additionally, surface blind seeds were emplaced by the UXOQCS before and during technology-aided surface removal field operations. A total of 248 QC seeds and 83 QA seeds were placed. All surface blind seeds were located in the field by the UXO teams.

Geophysical quality control was performed IAW Unit 5 SSWP Addendum (KEMRON, 2022) and the MEC QAPP (KEMRON, 2016) consisted of three primary activities: confirmation that MQOs had been achieved; installation, detection, and tracking of blind seeds; and reprocessing of at least 10% of the total mapped area in the Unit.

Performance of the DGM system with respect to the MQOs was tracked in the project Access Database and was reviewed by the QC Geophysicist (AECOM) as processed data was made available by the geophysical subcontractor (NAEVA Geophysics). IVS data were collected at a test strip constructed within Unit 4 on the east side of Forrestal Road and south of the Unit 5 boundary. MQO performance was determined to be acceptable for all data collected in Unit 5. On those occasions when an MQO was not achieved, other metrics supported a conclusion that the data were of sufficient quality to achieve the objectives for the investigation. For example, if one item in the IVS did not meet the response criteria metric, but a blind seed was detected on the same day that did meet the response criteria, the data could be considered acceptable.

A total of 65 blind QC seeds were emplaced in Unit 5 prior to the start of DGM data collection. Since the DGM data collection was completed in 47 workdays, the data met the stated goal of covering an average

of one seed item per team per day. All blind QC seeds consisted of small industry standard objects (ISOs) buried to a depth of six inches to the center of mass at a vertical orientation. All QC seeds were detected within the acceptable response and positioning criteria when accounting for the distance between the seed location and the nearest coil path (metallic objects have a higher response at the center of an EM61 coil than near the outside edges). Complete QC Seed detection results can be found in Appendix B.

QC reprocessing was performed on at least one grid in each collected grid block (discrete data collection unit). The results of the reprocessing were recorded in the project Access Database, summarized in a Grid QC Report, and provided to the USACE QA Geophysicist on an on-going basis. A total of 15.52 acres of DGM data were reprocessed, representing approximately 12.5% of the total collected area in Unit 5. No significant findings were made as a result of the reprocessing. Areas of suspected terrain response were identified as described in Section 5.0. Such areas are known to exist at Fort Ord and have been described in Technical Memoranda for numerous other Units throughout the Impact Area. In addition, as noted by the geophysical subcontractor, an overall increase in system noise was noted beginning on November 9, 2022. It is believed that this change in performance was likely related to a period of heavy rain experienced on November 8, 2022. However, the noise levels were still within the acceptable range for data previously collected in the Fort Ord Impact Area. System noise showed a general trend of improvement from the 9th through the end of the DGM data collection effort in Unit 5. A summary of the QC reprocessing effort is provided in Appendix A.

7.0 Observations of Evidence of Potential Soil Contamination

During field operations, UXO field personnel noted the presence of target boxes. The target boxes are subsurface concrete vaults that, when they were operational, contained a pop-up metal target/silhouette and mechanisms (mechanical and electrical) that were associated with the functioning of the pop-up target. All vault contents were removed during decommissioning (prior to remedial actions in the Impact Area MRA), and the vaults are currently empty. No concentrations of small arms or other munitions were noted. This information was provided to BRA personnel and was used in the conduct of the BRA program.

8.0 Recommendations for Additional Subsurface MEC Remediation

The Track 3 Record of Decision (ROD) identifies the types of areas where additional work (e.g., subsurface MEC removal) would be conducted. Other than the network of fuel break roads and 100-foot buffers, subsurface MEC removals can be conducted in areas to address specific risk and/or land use needs, such as BLM restoration sites. These areas are to be identified in the TM and evaluated.

Factors to be considered when determining whether additional actions are necessary include but are not limited to: (1) explosive hazards associated with MEC recovered; (2) the proximity to potential receptors; (3) the density of MEC recovered; and (4) consistency with Applicable or Relevant and Appropriate Requirements (e.g., Habitat Management Plan and Biological Opinions).

A joint Army-BLM inspection summary is provided in Appendix D. This summary describes areas such as target boxes and erosion features that appear to have naturally stabilized and did not identify any additional MEC removal to be necessary. It is noted that at the time of a prescribed burn in Unit 5, which is to be conducted in the future to encourage the recovery of the habitat, additional work may be conducted to support burn containment line preparation. It was recommended to fill the former target boxes with nearby native soil or mulch. A figure detailing these areas is included as part of Appendix D.

To address the low-likelihood (but high-impact) risk to prescribed burn personnel from 8-inch projectiles that may be present in shallow subsurface, DGM data assessment was performed and a list of subsurface anomalies that could represent large projectiles (8-inch/155mm) at 1- and 2-foot depths has been developed, as described in Appendix E. A total of 95 targets have been identified, of which 31 are associated with large projectiles at 1-foot depth. Previous risk reduction projects implemented the removal of anomalies corresponding to large projectiles at 2-foot depth in an outer zone immediately adjacent to prescribed burn perimeter roads. Unit 5 is not bounded by drivable fuel break roads, and the design of a future prescribed burn unit configuration will not be determined until planning is underway for the prescribed burn. The anomalies identified in Appendix E will be further evaluated for the need for intrusive investigation, and selected anomalies will be investigated.

Pond 76 is currently not accessible for DGM due to recent rains. DGM data collection will be conducted when conditions are suitable for field activities. Subsurface investigation will be conducted if targets are identified.

Three UXO items containing sensitive fuzes (Projectile, 40mm, high explosive, M383) were encountered during surface removal just east of Forrestal Road. The DGM results indicate generally low density of anomalies in the vicinity of the three items. Munitions debris associated with sensitive fuze-type munitions was removed from one grid in Unit 5 (less than one pound in Grid A2H0B5, several grids apart from the locations of the UXO items). Based on these findings and historical information, there is no indication of a range for munitions with sensitive fuzes in Unit 5.

No additional subsurface MEC removal is recommended for Unit 5 other than potential anomaly investigation based on the anomaly evaluation and in Pond 76 described above.

9.0 Environmental Protection

The project area is within the Natural Resource Management Area which is designated for transfer to BLM as undeveloped habitat reserve as described in the HMP (USACE, 1997). The HMP describes special land restrictions and habitat management requirements within habitat reserve areas. Habitat reserve areas support plant and animal species protected under the Endangered Species Act; implementation of mitigation measures identified in the HMP are required to minimize potential adverse impacts to listed species. Please refer to Section 1.3 for a description of the vegetation and HMP species present within Unit 5. The activities conducted on the site included the following: mechanical and manual mastication (hand-cutting of vegetation) to support surface MEC removal, pruning of oak trees, surface MEC removal, DGM, and subsurface MEC removal in Pond 21.

Mitigation measures to reduce impacts to protected species during MEC remedial actions are described in the HMP (USACE, 1997) and the Programmatic BO (USFWS, 2017). Mitigation and other environmental protection measures that were implemented during this project are summarized below:

- *Minimize Disturbance Associated with MEC Removal:* Disturbances were limited to those required for the above-mentioned activities. As required by the HMP, existing roads were used with the exception of where it was necessary to traverse the site using tracked vehicles in order to remove vegetation and conduct the DGM portion of the MEC removal. Access roads, staging areas, and other appurtenant facilities were sited to avoid impacts to HMP plant and wildlife species. Additionally, multiple large Monterey manzanitas and coast live oak trees (*Quercus agrifolia*) were avoided during vegetation removal activities.
- *Avoid Disturbance of Annual Plant Populations:* High densities of Monterey spineflower were identified within the project site during baseline studies conducted in 2015 (Burleson Consulting, Inc., 2016). In addition, Yadon's piperia was identified within or near the site between 2010 and 2019 along the fuel breaks on Darwin and Evolution Roads. While vegetation removal, MEC removal, and DGM activities were necessary within the HMP annuals plant population areas, no equipment or personnel were permitted within these areas from approximately March (approximate time of germination) through June (approximate time of seed-set) for Monterey spineflower, and through approximately September for Yadon's piperia . These areas were also avoided when siting staging areas and access routes. Seaside bird's-beak and sand gilia were not observed within the project site during the baseline surveys or during project activities.
- *Conduct Employee Education Program*: Training for all supervisors and field personnel was conducted by the Project Biologist. Any new personnel also received biological training prior to

working on the site. Training included information on rare, threatened, and endangered species on the site, including a description of the species, their protected status, a list of measures to be implemented to avoid and reduce impacts to these species and their habitat, and contact information to report unforeseen impacts to HMP species. Additionally, Habitat Checklists were prepared by the Project Biologist that outlined specific avoidance and minimization measures, and which were communicated to the project supervisors prior to work initiation.

- *Minimize Impacts to the Black Legless Lizard:* Supervisors and field personnel were trained during the Employee Education Program to identify the black legless lizard, and were informed of the potential for this species to occur within the project site and the established protocol, if any individuals were encountered. However, no black legless lizards were observed during the course of this work.
- *Minimize Impacts to California Linderiella, California Tiger Salamander, and Red-legged frog:* Supervisors and field personnel were trained during the Employee Education Program to identify California tiger salamander and California red-legged frog, and were informed of the potential for these species to occur within the project site and the established protocol, if any individuals were encountered. Vernal Pools 21 and 76 are present within the project site and were delineated in the field and flagged by the Project Biologist prior to the work being conducted . MEC removal in Ponds 21 and 76 occurred while the ponds were dry, and only small mechanical or manual equipment were used to remove vegetation when necessary. In addition, the subsurface investigation of Pond 21 occurred while the pond was dry and followed the Standard Operating Procedure for Soil and Vegetation Handling in Vernal Pools in order to be protective of the biotic constituents of the vernal pool, specifically the soil layers. No California tiger salamanders or California red-legged frogs were observed during the course of this work.
- *Invasive Weed Control:* In order to reduce the spread of invasive weeds, existing roads were used to the greatest extent feasible, and all equipment coming from off-site was pressure-washed prior to entering habitat reserve areas. The mastication contractor pressure-washed their equipment at their yard prior to arrival on site.
- *Erosion Control:* To reduce erosion concerns on bare soil, normal vehicle access was restricted to existing roads. Tracked vehicles were used to conduct vegetation removal and DGM surveys over the site. KEMRON monitored the work site for potential erosion problems, and a final inspection was conducted by the Project Biologist.

10.0 Conclusions/Summary of Recommendations

Technology-aided surface MEC removal has been completed in all accessible grids within Unit 5, as shown on Figure 3. DGM survey in Unit 5 occurred as intended within the scope of work (Figure 5). A comprehensive list of remedial action operations by grid for the Unit 5 RA is shown in Table 8. Subsurface MEC removal in Pond 21 was completed as intended within the scope of work. Pond 76 was not accessible for DGM due to recent rains. DGM data collection in that pond will be conducted when conditions are suitable for field activities.

The following additional work activities have been identified for Unit 5.

- DGM data collection in Pond 76 will be conducted when conditions are suitable for field activities. Subsurface investigation will be conducted if targets are identified.
- The 95 anomalies identified from the DGM data assessment will be further evaluated for the need for intrusive investigation, and selected anomalies will be investigated.
- As described in the Army-BLM joint inspection summary (Appendix D), the former target boxes will be filled with nearby native soil or mulch.

No additional subsurface MEC removal is recommended for Unit 5 other than potential anomaly investigation based on the anomaly evaluation and in Pond 76 described above.

11.0 References

Burleson Consulting, Inc., 2016. *2015 Annual Monitoring Report and 2015 Annual Wetland Vegetation and Wildlife Monitoring Report.* (AR# BW-2795)

Gilbane, 2014. *Final Remedial Action Completion Report Site 39 Inland Ranges Habitat Reserve Former Fort Ord, California, 2014*. (AR# RI-047C)

Gilbane, 2015. *MRS-BLM Units 7, 10, and 33 MEC Remedial Action, Technical Memorandum, Former Fort Ord, California.* (AR# OE-0842)

KEMRON, 2015. *Final Site-Specific Work Plan, Munitions and Explosives of Concern Remedial Action, MRS-BLM Unit 23 and in Support of Units 11 and 12 Prescribed Burns (includes portions of Units 5A, 9, 25, 28 and 31, Former Fort Ord, California.* (AR# OE-0862B)

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U.S. Army Corps of Engineers (USACE), 1997. *Installation-Wide Multispecies Habitat Management Plan for Former Fort Ord, California.* (AR# BW-1787)

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U.S. Department of the Army (Army), 2008. *Final Track 3 Record of Decision, Impact Area Munitions Response Area, Track 3 Munitions Response Site, Former Fort Ord, California* (AR# OE-0647)

USFWS, 2017. *Reinitiation of Formal Consultation for Cleanup and Property Transfer Actions Conducted at the Former Fort Ord, Monterey County, California (Original Consultation 8-8-09-F-74, 81440-2009-F-0334).* (AR# BW-2747A)

Tables

Table 1 - Previous Munitions Responses in Unit 5

Figure 2 Legend Description	Location (see Figure 2)	Document Title	AR #
Surface Removal - 2013 (Gilbane)	SW corner of unit	MRS-BLM Units 7, 10, and 33 MEC Remedial Action, Technical Memorandum Former Fort Ord, California	OE-0842
DGM Survey - 2013 (Shaw)	SW corner of unit	MRS-BLM Units 7, 10, and 33 MEC Remedial Action, Technical Memorandum Former Fort Ord, California	OE-0842
DGM Survey - 2010 (Shaw) DGM Dig - 2010 (Shaw)	HA-29, south-central part of unit; small area north of this in central unit	Final Remedial Action Completion Report Site 39 Inland Ranges Habitat Reserve Former Fort Ord California	RI-047C
Subsurface Removal (4 ft) - 1997 (USA)	Forrestal Rd (north-south road in center of unit), and Vulcan Rd (south boundary in western half of unit)	Final 4' OE Removal Action Report Inland Range Contract Site OE-15 (Roads and Trails)	OE-0316
OE Sampling 1998 (USA)	Middle of unit	Final After-Action Report 100% Grid Sampling, Inland Range Contract, Former Fort Ord, California Site OE-15B	OE-0287A
DGM Survey – 2020 (USACE)[1]	Pond 21, central-north portion of unit	Final DGM Survey of Vernal Pond 21 at Former Fort Ord, Monterey, California	OE-1003

[1] *KEMRON/USACE consider Pond 21 (where DGM has been conducted with UXO escort) to be surface removal complete or not required. However, in 2022, surface removal was completed during the remedial action.*

Table 2 – Remedial Work Activity Timeline and Summary

Activity	Date	Description
Vegetation Clearance	11/05/21 – 12/21/21	Mechanical mastication (119.4 acres); manual mastication (3.4 acres) 11/29/21 – 12/09/21, performed in sensitive vernal pond buffers and tree "limbing" to allow access to wooded areas. A total of approximately 122.8 acres were cut.
Grid Staking	12/13/21 – 12/22/21	810 of 835 grid stakes placed; 07/13/22 – 07/14/22, remaining 25 grid stakes placed just prior to the start of surface MEC removal.
Surface MEC Removal	07/18/22 – 09/22/22	Technology-aided surface MEC removal on 124.7 acres, 627 grids
Subsurface MEC Removal in Pond 21	09/19/22 – 09/21/22	0.85 acres, investigated 80 targets, 0.08 acres of data gaps.
Digital Geophysical Mapping (DGM)	09/12/22 – 11/23/22	123.7 acres mapped, 626 grids

Table 3 - MEC Items Previously Removed in Unit 5

Model Description	Date Found	Depth (in)	QTY	MM Type	Grid ID	Unique ID	Contractor
Projectile, 75mm, high explosive, M48	11/6/1997	0	1	UXO	MRS-15_VULCAN ROAD25-27	77800	USA
Fuze, projectile, combination, M1907	1/27/1998	0	1	UXO	MRS-15B_G 04	77903	USA
Rocket, 35mm, subcaliber, practice, M73	7/17/2013	0	1	UXO	A2G8B3	814777	Gilbane
Rocket, 35mm, subcaliber, practice, M73	7/17/2013	0	1	UXO	A2G8B4	814780	Gilbane
Rocket, 35mm, subcaliber, practice, M73	7/17/2013	0	1	UXO	A2G8B4	814781	Gilbane
Rocket, 35mm, subcaliber, practice, M73	7/17/2013	0	1	UXO	A2G8D3	814788	Gilbane

Table 4 – Type and Quantity of MEC Items Removed During Remedial Action

Model Description	Quantity
Grenade, hand, practice, M69	2
Projectile, 37mm, low explosive, MK I	5
Projectile, 37mm, low explosive, MK II	6
Projectile, 40mm, high explosive, M383	3
Projectile, 75mm, high explosive, M48	2
Projectile, 75mm, high explosive, MK I	2
Projectile, 75mm, shrapnel, MK I	2
Projectile, 8-inch, high explosive, M106 Series	1
Grand Total	**23**

Table 5 - MEC Items Removed During Remedial Action

Model Description	Date Found	Quantity	MM Type	Grid ID	Unique ID	Contractor
Projectile, 8-inch, high explosive, M106 Series*	11/19/2021	1	UXO	A2G0G0	A2G0G0-Veg-1-1	KEMRON
Projectile, 75mm, high explosive, MK I	7/28/2022	1	UXO	A3G1D8	A3G1D8-1-1	KEMRON
Projectile, 40mm, high explosive, M383	8/4/2022	1	UXO	A2G0F3	A2G0F3-1-1	KEMRON
Grenade, hand, practice, M69	8/8/2022	1	DMM	A3F2G3	A3F2G3-1-1	KEMRON
Grenade, hand, practice, M69	8/10/2022	1	DMM	A3F2H0	A3F2H0-1-1	KEMRON
Projectile, 75mm, shrapnel, MK I	8/11/2022	1	UXO	A2G0G9	A2G0G9-1-1	KEMRON
Projectile, 40mm, high explosive, M383	8/15/2022	1	UXO	A2G0H2	A2G0H2-1-1	KEMRON
Projectile, 40mm, high explosive, M383	8/18/2022	1	UXO	A2G0I2	A2G0I2-1-1	KEMRON
Projectile, 75mm, high explosive, M48	8/25/2022	1	UXO	A2H0B6	A2H0B6-1-1	KEMRON
Projectile, 37mm, low explosive, MK I	8/29/2022	1	UXO	A2H0B3	A2H0B3-1-1	KEMRON
Projectile, 75mm, high explosive, MK I	8/31/2022	1	UXO	A2G9E8	A2G9E8-1-1	KEMRON
Projectile, 37mm, low explosive, MK I	9/12/2022	1	UXO	A2G9I6	A2G9I6-1-1	KEMRON
Projectile, 37mm, low explosive, MK II	9/13/2022	1	UXO	A2G9J2	A2G9J2-1-1	KEMRON
Projectile, 37mm, low explosive, MK I	9/13/2022	1	UXO	A2H8C3	A2H8C3-1-1	KEMRON
Projectile, 37mm, low explosive, MK I	9/15/2022	1	UXO	A2H9B1	A2H9B1-1-1	KEMRON
Projectile, 37mm, low explosive, MK II	9/15/2022	1	UXO	A2H8D4	A2H8D4-1-1	KEMRON
Projectile, 75mm, high explosive, M48	9/15/2022	1	UXO	A2H8D4	A2H8D4-1-2	KEMRON
Projectile, 75mm, shrapnel, MK I	9/16/2022	1	UXO	A2H9C2	A2H9C2-1-1	KEMRON
Projectile, 37mm, low explosive, MK II	9/16/2022	1	UXO	A2H8E3	A2H8E3-1-1	KEMRON
Projectile, 37mm, low explosive, MK II	9/16/2022	1	UXO	A2H8E4	A2H8E4-1-1	KEMRON
Projectile, 37mm, low explosive, MK II	9/16/2022	1	UXO	A2H8E6	A2H8E6-1-1	KEMRON
Projectile, 37mm, low explosive, MK II	9/20/2022	1	UXO	A2H9D3	A2H9D3-1-1	KEMRON
Projectile, 37mm, low explosive, MK I	9/21/2022	1	UXO	A2H8E7	A2H8E7-1-1	KEMRON

Notes:
1) *"Projectile, 8-inch, high explosive, M106 Series" was recovered by the UXO escort during vegetation removal (mastication) activities in November 2021. All other MEC was recovered during surface removal operations.
2) All MEC was recovered from surface (depth = 0')

Table 6 - Intrusive Results from Pond 21

Anomaly ID	Work Date	vchGrid ID	Survey Instr	ftNorthing	ftEasting	iQTY	iDepth	vchOEType	Weight (lbs)
1	9/20/2022	Pond21	EM61	2108876	5745209	0	18[1]	Other	0
2	9/20/2022	Pond21	EM61	2108883	5745189	0	0	Other	0
3	9/20/2022	Pond21	EM61	2108883	5745306	0	0	Other	0
4	9/20/2022	Pond21	EM61	2108883	5745308	0	0	Other	0
5	9/20/2022	Pond21	EM61	2108888	5745232	0	0	Other	0
6	9/20/2022	Pond21	EM61	2108889	5745350	0	0	Other	0
7	9/20/2022	Pond21	EM61	2108891	5745325	1	1	Other-SAA (small arms, 50cal)	0.25
8	9/20/2022	Pond21	EM61	2108891	5745354	0	0	Other	0
9	9/20/2022	Pond21	EM61	2108892	5745327	0	0	Other	0
10	9/20/2022	Pond21	EM61	2108892	5745369	0	0	Other	0
11	9/20/2022	Pond21	EM61	2108893	5745187	0	0	Other	0
12	9/20/2022	Pond21	EM61	2108893	5745376	0	0	Other	0
13	9/20/2022	Pond21	EM61	2108895	5745252	0	0	Other	0
14	9/20/2022	Pond21	EM61	2108897	5745275	0	0	Other	0
15	9/20/2022	Pond21	EM61	2108898	5745346	0	0	Other	0
16	9/20/2022	Pond21	EM61	2108899	5745348	0	0	Other	0
17	9/20/2022	Pond21	EM61	2108900	5745388	0	0	Other	0
18	9/20/2022	Pond21	EM61	2108902	5745210	0	0	Other	0
19	9/20/2022	Pond21	EM61	2108908	5745368	0	0	Other	0
20	9/20/2022	Pond21	EM61	2108910	5745368	0	0	Other	0
21	9/20/2022	Pond21	EM61	2108915	5745196	0	0	Other	0
22	9/20/2022	Pond21	EM61	2108915	5745257	0	22[1]	Other	0
23	9/20/2022	Pond21	EM61	2108915	5745198	0	0	Other	0
24	9/20/2022	Pond21	EM61	2108916	5745212	0	0	Other	0
25	9/20/2022	Pond21	EM61	2108918	5745214	0	0	Other	0
26	9/20/2022	Pond21	EM61	2108922	5745200	0	0	Other	0
27	9/20/2022	Pond21	EM61	2108926	5745407	0	0	Other	0
28	9/20/2022	Pond21	EM61	2108935	5745269	0	0	Other	0
29	9/20/2022	Pond21	EM61	2108935	5745424	0	0	Other	0
30	9/20/2022	Pond21	EM61	2108937	5745242	0	0	Other	0
31	9/20/2022	Pond21	EM61	2108941	5745235	1	6	MD (Assorted MD Components)	0.25
32	9/20/2022	Pond21	EM61	2108943	5745235	0	0	Other	0

Anomaly ID	Work Date	vchGrid ID	Survey Instr	ftNorthing	ftEasting	iQTY	iDepth	vchOEType	Weight (lbs)
33	9/20/2022	Pond21	EM61	2108944	5745333	0	0	Other	0
34	9/20/2022	Pond21	EM61	2108945	5745239	0	0	Other	0
35	9/20/2022	Pond21	EM61	2108946	5745288	0	0	Other	0
36	9/20/2022	Pond21	EM61	2108951	5745291	0	0	Other	0
37	9/20/2022	Pond21	EM61	2108955	5745228	0	0	Other	0
38	9/20/2022	Pond21	EM61	2108956	5745231	0	0	Other	0
39	9/20/2022	Pond21	EM61	2108959	5745322	0	0	Other	0
40	9/20/2022	Pond21	EM61	2108962	5745395	0	0	Other	0
41	9/20/2022	Pond21	EM61	2108963	5745397	0	0	Other	0
42	9/20/2022	Pond21	EM61	2108964	5745266	0	0	Other	0
43	9/20/2022	Pond21	EM61	2108965	5745296	0	0	Other	0
44	9/20/2022	Pond21	EM61	2108966	5745417	0	0	Other	0
45	9/20/2022	Pond21	EM61	2108966	5745362	0	0	Other	0
46	9/20/2022	Pond21	EM61	2108967	5745359	0	0	Other	0
47	9/20/2022	Pond21	EM61	2108968	5745428	0	0	Other	0
48	9/20/2022	Pond21	EM61	2108970	5745358	0	0	Other	0
49	9/20/2022	Pond21	EM61	2108970	5745256	0	0	Other	0
50	9/20/2022	Pond21	EM61	2108970	5745431	0	0	Other	0
51	9/20/2022	Pond21	EM61	2108972	5745422	1	6	MD (Assorted MD Components)	0.25
52	9/20/2022	Pond21	EM61	2108972	5745436	0	0	Other	0
53	9/20/2022	Pond21	EM61	2108973	5745272	0	0	Other	0
54	9/20/2022	Pond21	EM61	2108977	5745334	0	0	Other	0
55	9/20/2022	Pond21	EM61	2108978	5745331	0	0	Other	0
56	9/20/2022	Pond21	EM61	2108984	5745436	0	0	Other	0
57	9/20/2022	Pond21	EM61	2108986	5745256	0	0	Other	0
58	9/20/2022	Pond21	EM61	2108986	5745327	0	0	Other	0
59	9/20/2022	Pond21	EM61	2108989	5745354	0	0	Other	0
60	9/20/2022	Pond21	EM61	2108995	5745429	0	0	Other	0
61	9/20/2022	Pond21	EM61	2108997	5745432	0	0	Other	0
62	9/20/2022	Pond21	EM61	2109004	5745342	0	0	Other	0
63	9/20/2022	Pond21	EM61	2109004	5745340	0	0	Other	0
64	9/20/2022	Pond21	EM61	2109006	5745337	0	0	Other	0
65	9/20/2022	Pond21	EM61	2109007	5745292	0	0	Other	0
66	9/20/2022	Pond21	EM61	2109010	5745416	0	0	Other	0
67	9/20/2022	Pond21	EM61	2109011	5745384	0	0	Other	0
68	9/20/2022	Pond21	EM61	2109019	5745306	0	0	Other	0
69	9/20/2022	Pond21	EM61	2109022	5745312	0	0	Other	0

Anomaly ID	Work Date	vchGrid ID	Survey Instr	ftNorthing	ftEasting	iQTY	iDepth	vchOEType	Weight (lbs)
70	9/20/2022	Pond21	EM61	2109024	5745386	0	0	Other	0
71	9/20/2022	Pond21	EM61	2109026	5745344	0	0	Other	0
72	9/20/2022	Pond21	EM61	2109026	5745394	0	0	Other	0
73	9/20/2022	Pond21	EM61	2109027	5745391	0	0	Other	0
74	9/20/2022	Pond21	EM61	2109031	5745331	0	0	Other	0
75	9/20/2022	Pond21	EM61	2109041	5745301	0	0	Other	0
76	9/20/2022	Pond21	EM61	2109044	5745318	0	0	Other	0
77	9/20/2022	Pond21	EM61	2109046	5745315	0	0	Other	0
78	9/20/2022	Pond21	EM61	2109059	5745373	0	0	Other	0
79	9/20/2022	Pond21	EM61	2109060	5745370	0	0	Other	0
80	9/20/2022	Pond21	EM61	2109069	5745389	0	0	Other	0

Notes:

1) One target was dug to the vernal pond clearance depth of 18 inches and one target was dug beyond the vernal pond clearance depth (22 inches), as requested by the on-site USACE geologist. No metallic objects were recovered from either target location and there were no further responses from the survey instrument (EM61 in analog mode).

2) Anomaly ID corresponds with points/IDs on Figure 6.

Table 7 – Cumulative Remedial Action Results

Total area of Unit 5:	130 acres
Area of previous remedial actions in Unit 5 in 2013 (SW corner of unit):	3.93 acres
Area of previous remedial actions in Unit 5 in HA-29:	0.96 acres
Area of vegetation cut:	122.8 acres
Technology-aided surface removal total area:	124.7 acres
DGM survey total area:	123.7 acres
DGM survey data gaps:	3.22 acres
Pond 21 DGM survey/geophysical anomaly investigation area:	0.85 acres
Pond 21 DGM data gaps/analog geophysical anomaly investigation area:	0.08 acres
Total number of MEC items removed during remedial action*:	23
Total munitions debris (MD) removed during remedial action:	4,358 lbs.
Total range-related debris (RRD) removed during remedial action:	3,019 lbs.

Notes:

1) Additional areas where previous remedial actions were performed in Unit 5 can be found on Figure 2.
2) *One MEC item was found during vegetation removal, and 22 MEC items were found during surface removal operations.

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
11/18/2020	Pond21	DGM EM61 Single Unit	5	GEO_QA_1	Lindsay, Kyle	Pond211P	Vernal Pond
11/19/2020	Pond21	DGM EM61 Single Unit	5	GEO_QA_1	Lindsay, Kyle	Pond211P	Vernal Pond
7/19/2022	A3G2F2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/19/2022	A3G2G2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/19/2022	A3G2G3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/19/2022	A3G2H2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/19/2022	A3G2H3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/19/2022	A2F0G4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/19/2022	A2F0G5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/19/2022	A2F0H2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/19/2022	A2F0H3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/19/2022	A2F0H4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/19/2022	A2F0H5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/19/2022	A2F0I2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/19/2022	A2F0I3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/19/2022	A2F0I4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/19/2022	A2F0J2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/19/2022	A2F0J3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/19/2022	A2F0J4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/20/2022	A3G1C0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/20/2022	A3G2C1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/20/2022	A3G2C2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/20/2022	A3G2D2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/20/2022	A3G2E2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/20/2022	A3G2E3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/20/2022	A3G2I2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/20/2022	A3G2I3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/20/2022	A2F0F5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/20/2022	A2F0F6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/20/2022	A2F0F7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/20/2022	A2F0F8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/20/2022	A2F0G6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/20/2022	A2F0G7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/20/2022	A2F0H6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/20/2022	A2F0I5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/20/2022	A2F0I6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/20/2022	A2F0J5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/20/2022	A2F0J6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/21/2022	A3G1C4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/21/2022	A3G1C5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/21/2022	A3G1C6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/21/2022	A3G1C7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/21/2022	A3G1C8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/21/2022	A3G1C9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/21/2022	A2F0H7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/21/2022	A2F0H8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/21/2022	A2F0I7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/21/2022	A2F0I8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/21/2022	A2F0J7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/21/2022	A2F0J8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/22/2022	A3G1B1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/22/2022	A3G1B2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/22/2022	A3G1B3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
7/22/2022	A3G1C1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/22/2022	A3G1C2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/22/2022	A3G1C3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/22/2022	A2F0G0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/22/2022	A2F0G8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/22/2022	A2F0G9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/22/2022	A2F0H0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/22/2022	A2F0H9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/22/2022	A2F0I0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/22/2022	A2F0I9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/22/2022	A2F0J9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/25/2022	A3G1B0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/25/2022	A3G1B4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/25/2022	A3G1B5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/25/2022	A3G1B6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/25/2022	A3G1B7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/25/2022	A3G1B8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/25/2022	A3G1B9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/25/2022	A2F0J0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/25/2022	A2G0A0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/25/2022	A2G0A5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/25/2022	A2G0A6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/25/2022	A2G0A7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/25/2022	A2G0A8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/25/2022	A2G0A9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/26/2022	A3G1A0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/26/2022	A3G1A5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/26/2022	A3G1A6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/26/2022	A3G1A7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/26/2022	A3G1A8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/26/2022	A3G1A9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/26/2022	A3G1B0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/26/2022	A2F0I1	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/26/2022	A2F0J1	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/26/2022	A2G0A1	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/26/2022	A2G0A2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/26/2022	A2G0A3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/26/2022	A2G0A4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/26/2022	A2G0B1	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/27/2022	A3G1A1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/27/2022	A3G1A2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/27/2022	A3G1A3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/27/2022	A3G1A4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/27/2022	A3G1D1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/27/2022	A3G1D2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/27/2022	A2G0B2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/27/2022	A2G0B3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/27/2022	A2G0B4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/27/2022	A2G0B5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/27/2022	A2G0B6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/27/2022	A2G0B7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/27/2022	A2G0B8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/27/2022	A2F0F5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
7/27/2022	A2F0F6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0F7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0F8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0G0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0G4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0G5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0G6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0G7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0G8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0G9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0H0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0H2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0H3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0H4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0H5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0H6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0H7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0H8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0H9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0I0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0I1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0I2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0I3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0I4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0I5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0I6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0I7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0I8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0I9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0J0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0J1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0J2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0J3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0J4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0J5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0J6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0J7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0J8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2F0J9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2G0A0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2G0A1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2G0A2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2G0A3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2G0A4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2G0A5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2G0A6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2G0A7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2G0A8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/27/2022	A2G0A9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
7/28/2022	A3G1D3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/28/2022	A3G1D4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/28/2022	A3G1D5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/28/2022	A3G1D6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
7/28/2022	A3G1D7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/28/2022	A3G1D8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/28/2022	A2G0B0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/28/2022	A2G0B9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/28/2022	A2G0C0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/28/2022	A2G0C6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/28/2022	A2G0C7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/28/2022	A2G0C8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/28/2022	A2G0C9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/29/2022	A3G1D0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/29/2022	A3G1D9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/29/2022	A3G1E0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/29/2022	A3G1E9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/29/2022	A3G2D1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/29/2022	A3G2E1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
7/29/2022	A2G0C1	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/29/2022	A2G0C2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/29/2022	A2G0C3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/29/2022	A2G0C4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/29/2022	A2G0C5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
7/29/2022	A2G0D1	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/1/2022	A3G1E2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/1/2022	A3G1E3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/1/2022	A3G1E4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/1/2022	A3G1E5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/1/2022	A3G1E6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/1/2022	A3G1E7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/1/2022	A3G1E8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/1/2022	A2G0D2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/1/2022	A2G0D3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/1/2022	A2G0D4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/1/2022	A2G0D5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/1/2022	A2G0D6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/1/2022	A2G0D7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/1/2022	A2G0D8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/1/2022	A3G1A0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1A1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1A2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1A3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1A4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1A5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1A6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1A7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1A8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1A9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1B0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1B1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1B2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1B3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1B4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1B5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1B6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1B7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
8/1/2022	A3G1B8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1B9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1C0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1C1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1C2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1C3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1C4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1C5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1C6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1C7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1C8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1C9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1D0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1D1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1D2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1D3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1D4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1D5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1D6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1D7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1D8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/1/2022	A3G1D9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/2/2022	A3G1E1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/2/2022	A3G1F1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/2/2022	A3G1F2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/2/2022	A3G1F3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/2/2022	A3G1F4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/2/2022	A3G1F5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/2/2022	A3G1F6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/2/2022	A2G0D0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/2/2022	A2G0D9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/2/2022	A2G0E0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/2/2022	A2G0E6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/2/2022	A2G0E7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/2/2022	A2G0E8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/2/2022	A2G0E9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/2/2022	A3G1A0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1A1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1A2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1A3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1A4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1A5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1A6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1A7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1A8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1A9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1B0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1B1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1B2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1B3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1B4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1B5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1B6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
8/2/2022	A3G1B7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1B8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1B9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1C0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1C1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1C2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1C3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1C4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1C5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1C6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1C7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1C8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1C9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1D0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1D1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1D2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1D3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1D4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1D5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1D6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1D7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1D8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/2/2022	A3G1D9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A3G1F0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/3/2022	A3G1F7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/3/2022	A3G1F8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/3/2022	A3G1F9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/3/2022	A3G1G0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/3/2022	A3G2F1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/3/2022	A3G2G1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/3/2022	A2G0E1	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/3/2022	A2G0E2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/3/2022	A2G0E3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/3/2022	A2G0E4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/3/2022	A2G0E5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/3/2022	A2G0F1	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/3/2022	A2F0F5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0F6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0F7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0F8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0G0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0G4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0G5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0G6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0G7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0G8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0G9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0H0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0H2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0H3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0H4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0H5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0H6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
8/3/2022	A2F0H7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0H8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0H9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0I0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0I1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0I2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0I3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0I4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0I5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0I6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0I7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0I8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0I9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0J0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0J1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0J2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0J3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0J4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0J5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0J6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0J7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0J8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2F0J9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2G0A0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2G0A1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2G0A2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2G0A3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2G0A4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2G0A5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2G0A6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2G0A7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2G0A8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/3/2022	A2G0A9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/4/2022	A3G1G3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/4/2022	A3G1G4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/4/2022	A3G1G5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/4/2022	A3G1G6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/4/2022	A3G1G7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/4/2022	A3G1G8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/4/2022	A3G1G9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/4/2022	A2G0F2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/4/2022	A2G0F3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/4/2022	A2G0F4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/4/2022	A2G0B0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0B1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0B2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0B3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0B4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0B5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0B6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0B7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0B8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0B9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
8/4/2022	A2G0C0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0C1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0C2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0C3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0C4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0C5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0C6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0C7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0C8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0C9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0D0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0D1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0D2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0D3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0D4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0D5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0D6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0D7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0D8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/4/2022	A2G0D9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/5/2022	A3F2F2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/5/2022	A3F2F3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/5/2022	A3F2F4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/5/2022	A3F2F5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/5/2022	A3F2F6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/5/2022	A3F2F7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/5/2022	A3F2F8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/5/2022	A3F2G9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/5/2022	A3G1G3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/5/2022	A3F1G1	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/5/2022	A3F1H1	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/5/2022	A3F1H2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/5/2022	A3F1I1	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/5/2022	A3F1I2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/5/2022	A3F1J1	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/5/2022	A3F1J2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/8/2022	A3F2G2	Surface Removal	5	UXO_1	Smith, Spencer (Tech III)		Interior
8/8/2022	A3F2G3	Surface Removal	5	UXO_1	Smith, Spencer (Tech III)		Interior
8/8/2022	A3F2G4	Surface Removal	5	UXO_1	Smith, Spencer (Tech III)		Interior
8/8/2022	A3F2G5	Surface Removal	5	UXO_1	Smith, Spencer (Tech III)		Interior
8/8/2022	A3F2G6	Surface Removal	5	UXO_1	Smith, Spencer (Tech III)		Interior
8/8/2022	A3F2G7	Surface Removal	5	UXO_1	Smith, Spencer (Tech III)		Interior
8/8/2022	A3F2G8	Surface Removal	5	UXO_1	Smith, Spencer (Tech III)		Interior
8/8/2022	A3F1H3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/8/2022	A3F1I3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/8/2022	A3F1I4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/8/2022	A3F1I6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/8/2022	A3F1I7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/8/2022	A3F1J3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/8/2022	A3F1J4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/8/2022	A3F1J5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/8/2022	A3F1J6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/9/2022	A3F2G1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
8/9/2022	A3F2G2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/9/2022	A3F2H1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/9/2022	A3F2H2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/9/2022	A3F2H3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/9/2022	A3F2H4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/9/2022	A3F2H5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/9/2022	A3F2H6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/9/2022	A3F1H8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/9/2022	A3F1H9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/9/2022	A3F1I8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/9/2022	A3F1I9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/9/2022	A3F1J7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/9/2022	A3F1J8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/9/2022	A3F1J9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/10/2022	A3F2H0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/10/2022	A3F2H6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/10/2022	A3F2H7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/10/2022	A3F2H8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/10/2022	A3F2H9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/10/2022	A3F2I5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/10/2022	A3F2I6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/10/2022	A3F2I7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/10/2022	A3F2I8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/10/2022	A3F2I9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/10/2022	A2G0F5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/10/2022	A2G0F6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/10/2022	A3F1G0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/10/2022	A3F1G9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/10/2022	A3F1H0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/10/2022	A3F1I0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/10/2022	A3F1J0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/10/2022	A3G1E0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/10/2022	A3G1E1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/10/2022	A3G1E2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/10/2022	A3G1E3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/10/2022	A3G1E4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/10/2022	A3G1E5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/10/2022	A3G1E6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/10/2022	A3G1E7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/10/2022	A3G1E8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/10/2022	A3G1E9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/10/2022	A3G1F0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/10/2022	A3G1F1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/10/2022	A3G1F2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/10/2022	A3G1F3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/10/2022	A3G1F4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/10/2022	A3G1F5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/10/2022	A3G1F6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/10/2022	A3G1F7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/10/2022	A3G1F8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/10/2022	A3G1F9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F2I1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/11/2022	A3F2I2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
8/11/2022	A3F2I3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/11/2022	A3F2I4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/11/2022	A3F2I5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/11/2022	A3F2J1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/11/2022	A3F2J2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/11/2022	A3F2J3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/11/2022	A2G0F0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/11/2022	A2G0F7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/11/2022	A2G0F8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/11/2022	A2G0F9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/11/2022	A2G0G0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/11/2022	A2G0G9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/11/2022	A3F1G0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1G1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1G9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1H0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1H1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1H2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1H3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1H8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1H9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1I0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1I1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1I2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1I3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1I4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1I6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1I7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1I8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1I9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1J0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1J1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1J2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1J3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1J4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1J5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1J6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1J7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1J8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/11/2022	A3F1J9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/12/2022	A3F2J3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/12/2022	A3F2J4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/12/2022	A3F2J5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/12/2022	A3F2J6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/12/2022	A3G2A2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/12/2022	A3G2A3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/12/2022	A3G2A4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/12/2022	A3G2A5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/12/2022	A2G0G3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/12/2022	A2G0G4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/12/2022	A2G0G5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/12/2022	A2G0G6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/12/2022	A2G0G7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
8/12/2022	A2G0G8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/15/2022	A3G2A1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/15/2022	A3G2B1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/15/2022	A3G2B2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/15/2022	A3G2B3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/15/2022	A3G2B4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/15/2022	A3G2C3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/15/2022	A3G2C4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/15/2022	A3G2D3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/15/2022	A2G0G1	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/15/2022	A2G0G2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/15/2022	A2G0H1	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/15/2022	A2G0H2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/15/2022	A3F2F2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2F3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2F4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2F5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2F6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2F7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2F8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2G1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2G2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2G3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2G4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2G5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2G6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2G7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2G8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2G9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2H0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2H1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2H2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2H3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2H4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2H5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2H6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2H7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2H8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2H9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2I1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2I2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2I3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2I4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2I5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2I6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2I7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2I8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2I9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2J1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2J2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2J3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2J4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/15/2022	A3F2J5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
8/15/2022	A3F2J6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/16/2022	A3G1G1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/16/2022	A3G1G2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/16/2022	A3G1H1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/16/2022	A3G1H2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/16/2022	A3G1H3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/16/2022	A3G1H4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/16/2022	A3G2B2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/16/2022	A2G0H3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/16/2022	A2G0H4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/16/2022	A2G0H5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/16/2022	A2G0H6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/16/2022	A2G0H7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/16/2022	A2G0H8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/16/2022	A2G0H9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/17/2022	A3G1H0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/17/2022	A3G1H4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/17/2022	A3G1H5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/17/2022	A3G1H6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/17/2022	A3G1H7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/17/2022	A3G1H8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/17/2022	A3G1H9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/17/2022	A2G0H0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/17/2022	A2G0I0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/17/2022	A2G0I3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/17/2022	A2G0I4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/17/2022	A2G0I5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/17/2022	A2G0I6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/17/2022	A2G0E0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0E1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0E2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0E3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0E4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0E5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0E6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0E7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0E8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0E9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0F0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0F1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0F2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0F3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0F4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0F5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0F6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0F7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0F8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0F9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0G0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0G1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0G2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0G3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0G4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
8/17/2022	A2G0G5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0G6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0G7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0G8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/17/2022	A2G0G9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/18/2022	A3G1I0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/18/2022	A3G1I7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/18/2022	A3G1I8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/18/2022	A3G1I9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/18/2022	A3G1J0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/18/2022	A3G1J7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/18/2022	A3G1J8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/18/2022	A3G1J9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/18/2022	A3G2H1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/18/2022	A3G2I1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/18/2022	A2G0I1	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/18/2022	A2G0I2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/18/2022	A2G0I3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/19/2022	A3G1I1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/19/2022	A3G1I2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/19/2022	A3G1I3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/19/2022	A3G1I4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/19/2022	A3G1I5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/19/2022	A3G1I6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/19/2022	A3G1J1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/19/2022	A2G0J1	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/19/2022	A2G0J2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/19/2022	A2G0J3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/19/2022	A2G0J4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/19/2022	A2G0J5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/19/2022	A2G0J6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/19/2022	A2G0J7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/19/2022	A3G2A1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2A2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2A3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2A4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2A5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2B1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2B2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2B3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2B4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2C1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2C2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2C3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2C4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2D1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2D2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2D3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2E1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2E2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2E3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2F1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2F2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
8/19/2022	A3G2G1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2G2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2G3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2H1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2H2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2H3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2I1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2I2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/19/2022	A3G2I3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/22/2022	A3G1J2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/22/2022	A3G1J3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/22/2022	A3G1J4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/22/2022	A3G1J5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/22/2022	A3G1J6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/22/2022	A3H1A3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/22/2022	A3H1A4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/22/2022	A3H1A5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/22/2022	A2G0I7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/22/2022	A2G0I8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/22/2022	A2G0I9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/22/2022	A2G0J0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/22/2022	A2G0J7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/22/2022	A2G0J8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/22/2022	A2G0J9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/22/2022	A2H0A0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/23/2022	A3H1A1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/23/2022	A3H1A2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/23/2022	A3H1A3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/23/2022	A3H1B1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/23/2022	A3H1B2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/23/2022	A3H1B3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/23/2022	A3H1B4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/23/2022	A3H1C2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/23/2022	A3H1C3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/23/2022	A3H1D2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/23/2022	A2H0A0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/23/2022	A2H0A8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/23/2022	A2H0A9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/23/2022	A2H0B0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/23/2022	A2H0B9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/23/2022	A2H0C0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/23/2022	A2H0C9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/23/2022	A2H0D0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/23/2022	A2H0D9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/23/2022	A3G1G0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1G1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1G2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1G3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1G4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1G5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1G6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1G7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1G8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
8/23/2022	A3G1G9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1H0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1H1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1H2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1H3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1H4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1H5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1H6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1H7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1H8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1H9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1I0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1I1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1I2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1I3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1I4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1I5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1I6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1I7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1I8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/23/2022	A3G1I9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/24/2022	A2F9I0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/24/2022	A2F9J0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/24/2022	A2F9J7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/24/2022	A2F9J8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/24/2022	A2F9J9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/24/2022	A2G9A0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/24/2022	A2G9A7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/24/2022	A2G9A8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/24/2022	A2G9A9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/24/2022	A3H1C1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/24/2022	A3H1D1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/24/2022	A2H0A6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/24/2022	A2H0A7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/24/2022	A2H0B7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/24/2022	A2H0B8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/24/2022	A2H0C7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/24/2022	A2H0C8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/24/2022	A2H0D7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/24/2022	A2H0D8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/24/2022	A3F1G0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1G1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1G9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1H0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1H1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1H2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1H3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1H8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1H9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1I0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1I1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1I2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1I3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
8/24/2022	A3F1I4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1I6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1I7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1I8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1I9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1J0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1J1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1J2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1J3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1J4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1J5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1J6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1J7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1J8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/24/2022	A3F1J9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A2F9J0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/25/2022	A2F9J8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/25/2022	A2G9A4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/25/2022	A2G9A5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/25/2022	A2G9A6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/25/2022	A2G9A7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/25/2022	A2G9B1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/25/2022	A2G9B2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/25/2022	A2G9B3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/25/2022	A2G9B4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/25/2022	A2G9B5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/25/2022	A2G9B6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/25/2022	A2G9B7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/25/2022	A2G9B8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/25/2022	A2H0A4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/25/2022	A2H0A5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/25/2022	A2H0B5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/25/2022	A2H0B6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/25/2022	A2H0C5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/25/2022	A2H0C6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/25/2022	A2H0D5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/25/2022	A2H0D6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/25/2022	A3F2F2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2F3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2F4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2F5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2F6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2F7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2F8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2G1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2G2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2G3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2G4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2G5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2G6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2G7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2G8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2G9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
8/25/2022	A3F2H0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2H1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2H2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2H3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2H4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2H5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2H6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2H7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2H8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2H9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2I1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2I2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2I3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2I4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2I5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2I6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2I7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2I8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2I9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2J1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2J2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2J3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2J4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2J5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3F2J6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/25/2022	A3G1J0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3G1J1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3G1J2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3G1J3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3G1J4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3G1J5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3G1J6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3G1J7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3G1J8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3G1J9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3H1A1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3H1A2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3H1A3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3H1A4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3H1A5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3H1B1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3H1B2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3H1B3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3H1B4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3H1C1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3H1C2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3H1C3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3H1D1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/25/2022	A3H1D2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G9B0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/26/2022	A2G9B8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/26/2022	A2G9B9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/26/2022	A2G9C0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
8/26/2022	A2G9C7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/26/2022	A2G9C8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/26/2022	A2G9C9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/26/2022	A2G8D6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/26/2022	A2G8D7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/26/2022	A2G8E6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/26/2022	A2G8F5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/26/2022	A2G8F6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/26/2022	A2G8G5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/26/2022	A2G8G6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/26/2022	A3G1E0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G1E1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G1E2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G1E3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G1E4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G1E5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G1E6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G1E7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G1E8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G1E9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G1F0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G1F1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G1F2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G1F3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G1F4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G1F5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G1F6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G1F7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G1F8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G1F9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2A1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2A2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2A3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2A4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2A5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2B1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2B2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2B3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2B4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2C1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2C2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2C3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2C4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2D1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2D2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2D3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2E1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2E2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2E3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2F1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2F2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2G1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2G2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
8/26/2022	A3G2G3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2H1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2H2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2H3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2I1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2I2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A3G2I3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/26/2022	A2G0H0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0H1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0H2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0H3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0H4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0H5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0H6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0H7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0H8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0H9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0I0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0I1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0I2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0I3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0I4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0I5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0I6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0I7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0I8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0I9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0J0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0J1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0J2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0J3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0J4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0J5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0J6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0J7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0J8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/26/2022	A2G0J9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/29/2022	A2G9C1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/29/2022	A2G9C2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/29/2022	A2G9C3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/29/2022	A2G9C4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/29/2022	A2G9C5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/29/2022	A2G9C6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/29/2022	A2G9D1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/29/2022	A2H0A1	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/29/2022	A2H0A2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/29/2022	A2H0A3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/29/2022	A2H0B1	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/29/2022	A2H0B2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/29/2022	A2H0B3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/29/2022	A2H0B4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/29/2022	A2H0C3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/29/2022	A2H0C4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
8/30/2022	A2G9D1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/30/2022	A2G9D2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/30/2022	A2G9D3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/30/2022	A2G9D4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/30/2022	A2G9D5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/30/2022	A2G9D6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/30/2022	A2G9D7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/30/2022	A2G8C0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/30/2022	A2G8D0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/30/2022	A2G8E0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/30/2022	A2G8F0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/30/2022	A2G8G0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/30/2022	A2G8H0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/30/2022	A2G8I0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/30/2022	A3G1G0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1G1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1G2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1G3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1G4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1G5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1G6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1G7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1G8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1G9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1H0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1H1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1H2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1H3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1H4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1H5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1H6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1H7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1H8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1H9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1I0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1I1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1I2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1I3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1I4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1I5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1I6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1I7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1I8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1I9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1J0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1J1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1J2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1J3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1J4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1J5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1J6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1J7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3G1J8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
8/30/2022	A3G1J9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3H1A1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3H1A2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3H1A3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3H1A4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3H1A5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3H1B1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3H1B2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3H1B3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3H1B4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3H1C1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3H1C2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3H1C3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3H1D1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A3H1D2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/30/2022	A2H0A0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0A1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0A2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0A3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0A4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0A5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0A6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0A7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0A8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0A9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0B0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0B1	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0B2	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0B3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0B4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0B5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0B6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0B7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0B8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0B9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0C0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0C3	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0C4	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0C5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0C6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0C7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0C8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0C9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0D0	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0D5	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0D6	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0D7	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0D8	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/30/2022	A2H0D9	Surface Removal QC	5	UXO_QC_1	McClain, Bruce		Interior
8/31/2022	A2G9D0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/31/2022	A2G9D8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/31/2022	A2G9D9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/31/2022	A2G9E0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
8/31/2022	A2G9E7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/31/2022	A2G9E8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/31/2022	A2G9E9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
8/31/2022	A2G8C9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/31/2022	A2G8D9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/31/2022	A2G8E9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/31/2022	A2G8F9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/31/2022	A2G8G9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/31/2022	A2G8H9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/31/2022	A2G8I9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
8/31/2022	A2G0B0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0B1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0B2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0B3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0B4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0B5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0B6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0B7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0B8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0B9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0C0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0C1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0C2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0C3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0C4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0C5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0C6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0C7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0C8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0C9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0D0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0D1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0D2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0D3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0D4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0D5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0D6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0D7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0D8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0D9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0E0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0E1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0E2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0E3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0E4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0E5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0E6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0E7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0E8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0E9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0F0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0F1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0F2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
8/31/2022	A2G0F3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0F4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0F5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0F6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0F7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0F8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0F9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0G0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0G1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0G2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0G3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0G4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0G5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0G6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0G7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0G8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
8/31/2022	A2G0G9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G9E1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/1/2022	A2G9E2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/1/2022	A2G9E3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/1/2022	A2G9E4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/1/2022	A2G9E5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/1/2022	A2G9E6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/1/2022	A2G9E7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/1/2022	A2G8C8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/1/2022	A2G8D8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/1/2022	A2G8E8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/1/2022	A2G8F8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/1/2022	A2G8G8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/1/2022	A2G8H8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/1/2022	A2G8I8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/1/2022	A2G8I9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/1/2022	A2G0H0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0H1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0H2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0H3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0H4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0H5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0H6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0H7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0H8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0H9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0I0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0I1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0I2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0I3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0I4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0I5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0I6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0I7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0I8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0I9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0J0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
9/1/2022	A2G0J1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0J2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0J3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0J4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0J5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0J6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0J7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0J8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2G0J9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/1/2022	A2F9I0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2F9J0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2F9J7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2F9J8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2F9J9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9A0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9A4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9A5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9A6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9A7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9A8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9A9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9B0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9B1	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9B2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9B3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9B4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9B5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9B6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9B7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9B8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9B9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9C0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9C1	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9C2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9C3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9C4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9C5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9C6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9C7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9C8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/1/2022	A2G9C9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/2/2022	A2G9F1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/2/2022	A2G9F2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/2/2022	A2G9F3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/2/2022	A2G9F4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/2/2022	A2G9F5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/2/2022	A2G9F6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/2/2022	A2G8E7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/2/2022	A2G8F7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/2/2022	A2G8G7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/2/2022	A2G8H7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/2/2022	A2G8I7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/2/2022	A2G8I8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
9/6/2022	A2G9F0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/6/2022	A2G9F7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/6/2022	A2G9F8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/6/2022	A2G9F9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/6/2022	A2G9G0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/6/2022	A2G9G8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/6/2022	A2G9G9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/6/2022	A2G8J0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/6/2022	A2G8J5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/6/2022	A2G8J6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/6/2022	A2G8J7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/6/2022	A2G8J8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/6/2022	A2G8J9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/7/2022	A2G9G1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/7/2022	A2G9G2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/7/2022	A2G9G3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/7/2022	A2G9G4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/7/2022	A2G9G5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/7/2022	A2G9G6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/7/2022	A2G9G7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/7/2022	A2G9G8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/7/2022	A2G8I2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/7/2022	A2G8I3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/7/2022	A2G8I4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/7/2022	A2G8I5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/7/2022	A2G8I6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/7/2022	A2G8J2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/7/2022	A2G8J3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/7/2022	A2G8J4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/7/2022	A2G9D0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9D1	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9D2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9D3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9D4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9D5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9D6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9D7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9D8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9D9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9E0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9E1	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9E2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9E3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9E4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9E5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9E6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9E7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9E8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9E9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9F0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9F1	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9F2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9F3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
9/7/2022	A2G9F4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9F5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9F6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9F7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9F8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/7/2022	A2G9F9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/8/2022	A2G9G1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/8/2022	A2G9H1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/8/2022	A2G9H2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/8/2022	A2G9H3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/8/2022	A2G9H4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/8/2022	A2G9H5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/8/2022	A2G9H6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/8/2022	A2G9H7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/8/2022	A2G8G3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/8/2022	A2G8G4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/8/2022	A2G8H2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/8/2022	A2G8H3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/8/2022	A2G8H4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/8/2022	A2G8H5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/8/2022	A2G8H6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/8/2022	A2H8A2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/8/2022	A2H8A3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/8/2022	A2H8A4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/9/2022	A2G9H0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/9/2022	A2G9H7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/9/2022	A2G9H8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/9/2022	A2G9H9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/9/2022	A2G9I0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/9/2022	A2G9I7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/9/2022	A2G9I8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/9/2022	A2G9I9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/9/2022	A2H8A0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/9/2022	A2H8A5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/9/2022	A2H8A6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/9/2022	A2H8A7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/9/2022	A2H8A8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/9/2022	A2H8A9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/9/2022	A2G8C0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8C8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8C9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8D0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8D6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8D7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8D8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8D9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8E0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8E6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8E7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8E8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8E9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8F0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8F5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
9/9/2022	A2G8F6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8F7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8F8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8F9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8G0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8G3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8G4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8G5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8G6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8G7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8G8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/9/2022	A2G8G9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/12/2022	A2G9I1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/12/2022	A2G9I2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/12/2022	A2G9I3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/12/2022	A2G9I4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/12/2022	A2G9I5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/12/2022	A2G9I6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/12/2022	A2G9I7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/12/2022	A2G9J1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/12/2022	A2H8B0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/12/2022	A2H8B7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/12/2022	A2H8B8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/12/2022	A2H8B9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/13/2022	A2G9J1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/13/2022	A2G9J2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/13/2022	A2G9J3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/13/2022	A2G9J4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/13/2022	A2G9J5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/13/2022	A2G9J6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/13/2022	A2H8B2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/13/2022	A2H8B3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/13/2022	A2H8B4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/13/2022	A2H8B5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/13/2022	A2H8B6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/13/2022	A2H8B7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/13/2022	A2H8C2	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/13/2022	A2H8C3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/13/2022	A2G8H0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8H2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8H3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8H4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8H5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8H6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8H7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8H8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8H9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8I0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8I2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8I3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8I4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8I5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8I6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
9/13/2022	A2G8I7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8I8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8I9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8J0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8J2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8J3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8J4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8J5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8J6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8J7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8J8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/13/2022	A2G8J9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9J0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/14/2022	A2G9J7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/14/2022	A2G9J8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/14/2022	A2G9J9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/14/2022	A2H9A5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/14/2022	A2H9A6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/14/2022	A2H9A7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/14/2022	A2H8C0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/14/2022	A2H8C4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/14/2022	A2H8C5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/14/2022	A2H8C6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/14/2022	A2H8C7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/14/2022	A2H8C8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/14/2022	A2H8C9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/14/2022	A2G9G0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9G1	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9G2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9G3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9G4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9G5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9G6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9G7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9G8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9G9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9H0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9H1	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9H2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9H3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9H4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9H5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9H6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9H7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9H8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9H9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9I0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9I1	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9I2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9I3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9I4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9I5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9I6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
9/14/2022	A2G9I7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9I8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/14/2022	A2G9I9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/15/2022	A2H9A1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/15/2022	A2H9A2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/15/2022	A2H9A3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/15/2022	A2H9A4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/15/2022	A2H9A5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/15/2022	A2H9B1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/15/2022	A2H9B2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/15/2022	A2H8C0	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/15/2022	A2H8D4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/15/2022	A2H8D5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/15/2022	A2H8D6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/15/2022	A2H8D7	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/15/2022	A2H8D8	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/15/2022	A2H8D9	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/16/2022	A3F2F3	DGM Towed Array	5	GEO_1	Swaffar, Ryan	A3F2F31	Interior
9/16/2022	A2H9B3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/16/2022	A2H9B4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/16/2022	A2H9B5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/16/2022	A2H9C1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/16/2022	A2H9C2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/16/2022	A2H9C3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/16/2022	A2H8D3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/16/2022	A2H8E3	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/16/2022	A2H8E4	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/16/2022	A2H8E5	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/16/2022	A2H8E6	Surface Removal	5	UXO_2	Mallory, Tom (Tech III)		Interior
9/16/2022	A2H8A0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8A2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8A3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8A4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8A5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8A6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8A7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8A8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8A9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8B0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8B2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8B3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8B4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8B5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8B6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8B7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8B8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8B9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8C0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8C2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8C3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8C4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8C5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8C6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
9/16/2022	A2H8C7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8C8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/16/2022	A2H8C9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/19/2022	A3F2G3	DGM Towed Array	5	GEO_1	Swaffar, Ryan	A3F2G31	Interior
9/19/2022	A2H9A0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/19/2022	A2H9A8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/19/2022	A2H9A9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/19/2022	A2H9B6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/19/2022	A2H9B7	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/19/2022	A2H9B8	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/19/2022	A2H9C5	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/19/2022	A2H9C6	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/20/2022	Pond21-G	ADG	5	UXO_2	Mallory, Tom (Tech III)		Vernal Pond
9/20/2022	A3F2F5	DGM Towed Array	5	GEO_1	Pinardi, Sean	A3F2F51	Interior
9/20/2022	Pond21	DigEx	5	UXO_2	Mallory, Tom (Tech III)		Vernal Pond
9/20/2022	A2H8D0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/20/2022	A2H8E0	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/20/2022	A2H8E9	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/20/2022	A2H9C4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/20/2022	A2H9D1	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/20/2022	A2H9D2	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/20/2022	A2H9D3	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/20/2022	A2H9D4	Surface Removal	5	UXO_1	Gonzales, Erick (Tech III)		Interior
9/20/2022	A2H0A0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0A1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0A2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0A3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0A4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0A5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0A6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0A7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0A8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0A9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0B0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0B1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0B2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0B3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0B4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0B5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0B6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0B7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0B8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0B9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0C0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0C3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0C4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0C5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0C6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0C7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0C8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0C9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0D0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0D5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
9/20/2022	A2H0D6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0D7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0D8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/20/2022	A2H0D9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	Pond21-G	ADG	5	UXO_2	Mallory, Tom (Tech III)		Vernal Pond
9/21/2022	A3F2F2	DGM Towed Array	5	GEO_1	Pinardi, Sean	A3F2F21	Interior
9/21/2022	A2H8E7	Surface Removal	5	UXO_1	Smith, Spencer (Tech II/III)		Interior
9/21/2022	A2H8E8	Surface Removal	5	UXO_1	Smith, Spencer (Tech II/III)		Interior
9/21/2022	A2H8F5	Surface Removal	5	UXO_1	Smith, Spencer (Tech II/III)		Interior
9/21/2022	A2H8F6	Surface Removal	5	UXO_1	Smith, Spencer (Tech II/III)		Interior
9/21/2022	A2H8F7	Surface Removal	5	UXO_1	Smith, Spencer (Tech II/III)		Interior
9/21/2022	A2H8G4	Surface Removal	5	UXO_1	Smith, Spencer (Tech II/III)		Interior
9/21/2022	A2H8G5	Surface Removal	5	UXO_1	Smith, Spencer (Tech II/III)		Interior
9/21/2022	A2F9I0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2F9J0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2F9J7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2F9J8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2F9J9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9A0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9A4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9A5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9A6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9A7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9A8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9A9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9B0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9B1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9B2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9B3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9B4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9B5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9B6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9B7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9B8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9B9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9C0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9C1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9C2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9C3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9C4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9C5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9C6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9C7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9C8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9C9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/21/2022	A2G9J0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2G9J1	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2G9J2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2G9J3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2G9J4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2G9J5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2G9J6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2G9J7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
9/21/2022	A2G9J8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2G9J9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9A0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9A1	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9A2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9A3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9A4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9A5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9A6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9A7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9A8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9A9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9B1	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9B2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9B3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9B4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9B5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9B6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9B7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9B8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9C1	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9C2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9C3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9C4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9C5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9C6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9D1	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9D2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9D3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/21/2022	A2H9D4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/22/2022	A3F2I5	DGM Towed Array	5	GEO_1	Pinardi, Sean	A3F2I51	Interior
9/22/2022	A3G1I3	DGM Towed Array	5	GEO_1	Pinardi, Sean	A3G1I31	Interior
9/22/2022	A2H8D2	Surface Removal	5	UXO_1	Smith, Spencer (Tech II/III)		Interior
9/22/2022	A2H8E2	Surface Removal	5	UXO_1	Smith, Spencer (Tech II/III)		Interior
9/22/2022	A2H8F2	Surface Removal	5	UXO_1	Smith, Spencer (Tech II/III)		Interior
9/22/2022	A2H8F3	Surface Removal	5	UXO_1	Smith, Spencer (Tech II/III)		Interior
9/22/2022	A2H8F4	Surface Removal	5	UXO_1	Smith, Spencer (Tech II/III)		Interior
9/22/2022	A2H8G1	Surface Removal	5	UXO_1	Smith, Spencer (Tech II/III)		Interior
9/22/2022	A2H8G2	Surface Removal	5	UXO_1	Smith, Spencer (Tech II/III)		Interior
9/22/2022	A2H8G3	Surface Removal	5	UXO_1	Smith, Spencer (Tech II/III)		Interior
9/23/2022	A2G0H0	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G0H01	Interior
9/26/2022	A2G0G7	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G0G71	Interior
9/27/2022	A2G0F0	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G0F01	Interior
9/27/2022	A2G9D0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9D1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9D2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9D3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9D4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9D5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9D6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9D7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9D8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9D9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
9/27/2022	A2G9E0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9E1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9E2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9E3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9E4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9E5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9E6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9E7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9E8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9E9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9F0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9F1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9F2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9F3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9F4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9F5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9F6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9F7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9F8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9F9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9G0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9G1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9G2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9G3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9G4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9G5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9G6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9G7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9G8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9G9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9H0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9H1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9H2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9H3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9H4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9H5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9H6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9H7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9H8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9H9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9I0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9I1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9I2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9I3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9I4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9I5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9I6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9I7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9I8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2G9I9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/27/2022	A2H8D0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8D2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8D3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
9/27/2022	A2H8D4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8D5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8D6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8D7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8D8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8D9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8E0	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8E2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8E3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8E4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8E5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8E6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8E7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8E8	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8E9	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8F2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8F3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8F4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8F5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8F6	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8F7	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8G1	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8G2	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8G3	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8G4	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/27/2022	A2H8G5	Surface Removal QC	5	UXO_QC_1	Bruce McClain		Interior
9/28/2022	A2G0E0	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G0E01	Interior
9/28/2022	A2G9J0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2G9J1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2G9J2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2G9J3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2G9J4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2G9J5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2G9J6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2G9J7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2G9J8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2G9J9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9A0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9A1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9A2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9A3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9A4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9A5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9A6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9A7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9A8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9A9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9B1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9B2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9B3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9B4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9B5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9B6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
9/28/2022	A2H9B7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9B8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9C1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9C2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9C3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9C4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9C5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9C6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9D1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9D2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9D3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/28/2022	A2H9D4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G0D0	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G0D01	Interior
9/29/2022	A2G8C0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8C8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8C9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8D0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8D6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8D7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8D8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8D9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8E0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8E6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8E7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8E8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8E9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8F0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8F5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8F6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8F7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8F8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8F9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8G0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8G3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8G4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8G5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8G6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8G7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8G8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/29/2022	A2G8G9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
9/30/2022	A2G0C0	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G0C01	Interior
10/3/2022	A2G0B0	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G0B01	Interior
10/3/2022	A3G1J6	DGM Towed Array	5	GEO_1	Pinardi, Sean	A3G1J61	Interior
10/3/2022	A2G8H0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8H2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8H3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8H4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8H5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8H6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8H7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8H8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8H9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8I0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
10/3/2022	A2G8I2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8I3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8I4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8I5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8I6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8I7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8I8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8I9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8J0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8J2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8J3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8J4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8J5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8J6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8J7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8J8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/3/2022	A2G8J9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2G0A0	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G0A01	Interior
10/4/2022	A2H8A0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8A2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8A3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8A4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8A5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8A6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8A7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8A8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8A9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8B0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8B2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8B3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8B4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8B5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8B6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8B7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8B8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8B9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8C0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8C2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8C3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8C4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8C5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8C6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8C7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8C8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/4/2022	A2H8C9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2F0J0	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2F0J01	Interior
10/5/2022	A2H8D0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8D2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8D3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8D4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8D5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8D6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8D7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior

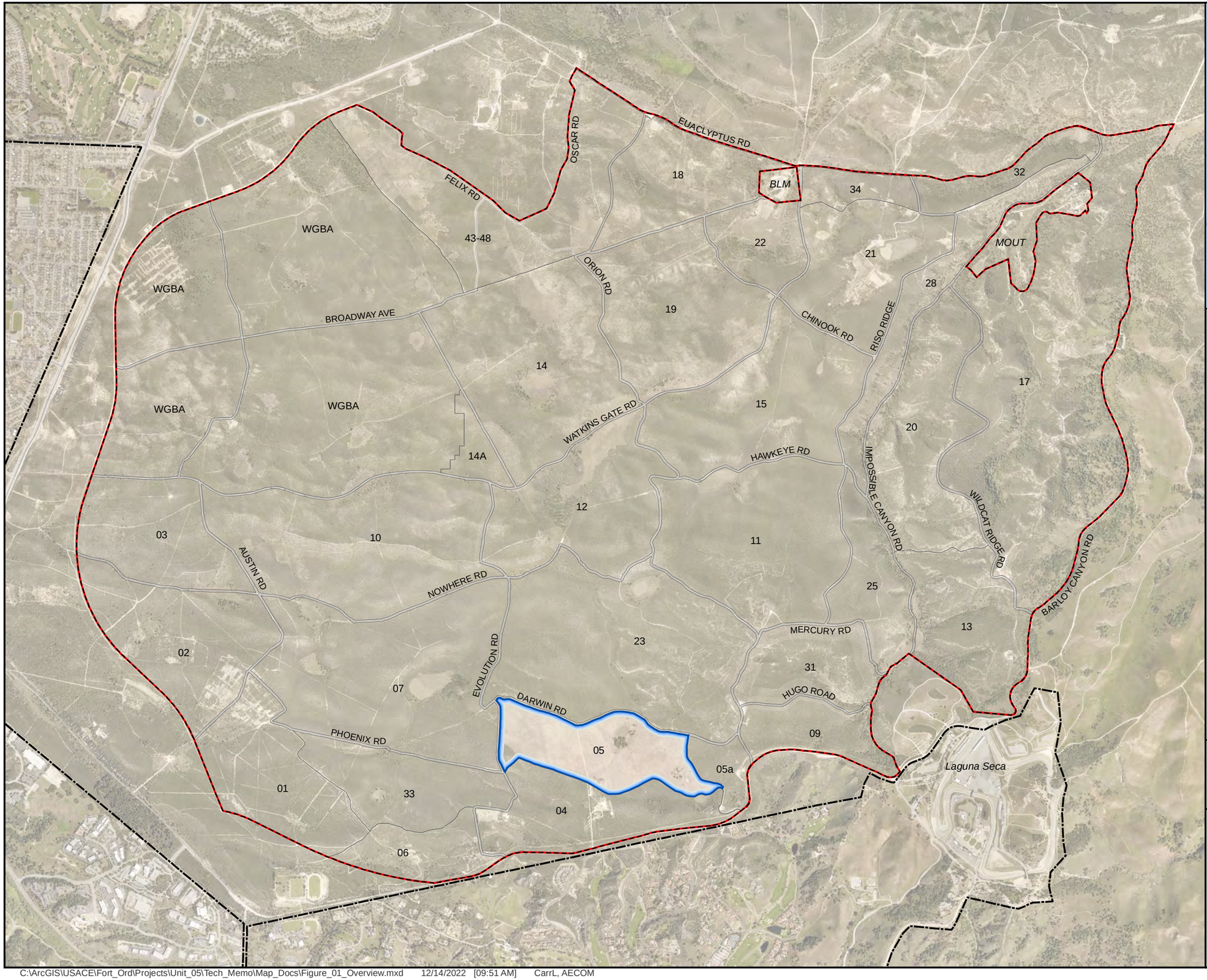
Table 8 - Unit 5 Remedial Action Grid Operations

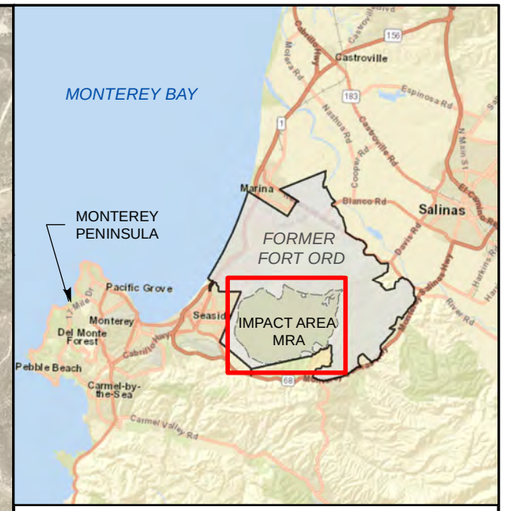
Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
10/5/2022	A2H8D8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8D9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8E0	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8E2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8E3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8E4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8E5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8E6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8E7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8E8	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8E9	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8F2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8F3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8F4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8F5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8F6	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8F7	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8G1	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8G2	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8G3	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8G4	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/5/2022	A2H8G5	Surface Removal QA	5	UXO_QA_1	Britt, James		Interior
10/6/2022	A2F0I0	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2F0I01	Interior
10/7/2022	A2F0G0	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2F0G01	Interior
10/10/2022	A3F2F3	QC DGM	5	GEO_QC_1	Alex Kostera	A3F2F31	Interior
10/10/2022	A3F2F5	QC DGM	5	GEO_QC_1	Alex Kostera	A3F2F51	Interior
10/11/2022	A2H0C3	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2H0C31	Interior
10/11/2022	A3F2F2	QC DGM	5	GEO_QC_1	Alex Kostera	A3F2F21	Interior
10/12/2022	A2H0B1	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2H0B11	Interior
10/13/2022	A2H9A0	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2H9A01	Interior
10/13/2022	A2G0C0	QC DGM	5	GEO_QC_1	Alex Kostera	A2G0C01	Interior
10/13/2022	A3F2I5	QC DGM	5	GEO_QC_1	Alex Kostera	A3F2I51	Interior
10/13/2022	A3G1I3	QC DGM	5	GEO_QC_1	Alex Kostera	A3G1I31	Interior
10/14/2022	A2F0H2	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2F0H21	Interior
10/14/2022	A2G0I7	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G0I71	Interior
10/14/2022	A2G0G7	QC DGM	5	GEO_QC_1	Alex Kostera	A2G0G71	Interior
10/14/2022	A2G0H0	QC DGM	5	GEO_QC_1	Alex Kostera	A2G0H01	Interior
10/17/2022	A2F0H9	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2F0H91	Interior
10/17/2022	A2G0D0	QC DGM	5	GEO_QC_1	Alex Kostera	A2G0D01	Interior
10/17/2022	A2G0E0	QC DGM	5	GEO_QC_1	Alex Kostera	A2G0E01	Interior
10/17/2022	A2G0F0	QC DGM	5	GEO_QC_1	Alex Kostera	A2G0F01	Interior
10/18/2022	A2F0H7	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2F0H71	Interior
10/18/2022	A2G0B0	QC DGM	5	GEO_QC_1	Alex Kostera	A2G0B01	Interior
10/19/2022	A2F0H6	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2F0H61	Interior
10/20/2022	A2F0H5	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2F0H51	Interior
10/21/2022	A2F0I4	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2F0I41	Interior
10/24/2022	A2F0I3	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2F0I31	Interior
10/24/2022	A2F0J0	QC DGM	5	GEO_QC_1	Alex Kostera	A2F0J01	Interior
10/24/2022	A3G1J6	QC DGM	5	GEO_QC_1	Alex Kostera	A3G1J61	Interior
10/25/2022	A2F0J2	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2F0J21	Interior
10/27/2022	A2F0I1	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2F0I11	Interior
10/27/2022	A2F9I0	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2F9I01	Interior
10/27/2022	A2F0I0	QC DGM	5	GEO_QC_1	Alex Kostera	A2F0I01	Interior

Table 8 - Unit 5 Remedial Action Grid Operations

Date	Grid ID	Op Type	Unit ID	Team	Team Leader	vchGridBlockID	vchGridType
10/27/2022	A2G0A0	QC DGM	5	GEO_QC_1	Alex Kostera	A2G0A01	Interior
10/28/2022	A2F9J9	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2F9J91	Interior
11/1/2022	A2F9J7	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2F9J71	Interior
11/1/2022	A2F9J8	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2F9J81	Interior
11/2/2022	A2G9A6	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G9A61	Interior
11/3/2022	A2H0C3	QC DGM	5	GEO_QC_1	Alex Kostera	A2H0C31	Interior
11/7/2022	A2F0G0	QC DGM	5	GEO_QC_1	Alex Kostera	A2F0G01	Interior
11/7/2022	A2H0B1	QC DGM	5	GEO_QC_1	Alex Kostera	A2H0B11	Interior
11/7/2022	A2H9A0	QC DGM	5	GEO_QC_1	Alex Kostera	A2H9A01	Interior
11/8/2022	A2F0H2	QC DGM	5	GEO_QC_1	Alex Kostera	A2F0H21	Interior
11/8/2022	A2G0I7	QC DGM	5	GEO_QC_1	Alex Kostera	A2G0I71	Interior
11/9/2022	A2G9A5	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G9A51	Interior
11/9/2022	A2F0H7	QC DGM	5	GEO_QC_1	Alex Kostera	A2F0H71	Interior
11/9/2022	A2F0H9	QC DGM	5	GEO_QC_1	Alex Kostera	A2F0H91	Interior
11/10/2022	A2G9A4	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G9A41	Interior
11/10/2022	A2F0H6	QC DGM	5	GEO_QC_1	Alex Kostera	A2F0H61	Interior
11/11/2022	A2G9B2	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G9B21	Interior
11/11/2022	A2G9B3	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G9B31	Interior
11/11/2022	A2F0H5	QC DGM	5	GEO_QC_1	Alex Kostera	A2F0H51	Interior
11/11/2022	A2F0I4	QC DGM	5	GEO_QC_1	Alex Kostera	A2F0I41	Interior
11/14/2022	A2G9B1	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G9B11	Interior
11/14/2022	A2F0I3	QC DGM	5	GEO_QC_1	Alex Kostera	A2F0I31	Interior
11/14/2022	A2F0J2	QC DGM	5	GEO_QC_1	Alex Kostera	A2F0J21	Interior
11/15/2022	A2G8C0	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G8C01	Interior
11/16/2022	A2G8C9	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G8C91	Interior
11/17/2022	A2G8C8	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G8C81	Interior
11/17/2022	A2F0I1	QC DGM	5	GEO_QC_1	Alex Kostera	A2F0I11	Interior
11/17/2022	A2F9I0	QC DGM	5	GEO_QC_1	Alex Kostera	A2F9I01	Interior
11/17/2022	A2F9J8	QC DGM	5	GEO_QC_1	Alex Kostera	A2F9J81	Interior
11/17/2022	A2F9J9	QC DGM	5	GEO_QC_1	Alex Kostera	A2F9J91	Interior
11/18/2022	A2G8D7	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G8D71	Interior
11/19/2022	A2G8D6	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G8D61	Interior
11/20/2022	A2G8F5	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G8F51	Interior
11/21/2022	A2G8G3	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G8G31	Interior
11/21/2022	A2G8G4	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G8G41	Interior
11/22/2022	A2G8H2	DGM Towed Array	5	GEO_1	Pinardi, Sean	A2G8H21	Interior
11/22/2022	A2F9J7	QC DGM	5	GEO_QC_1	Alex Kostera	A2F9J71	Interior
11/22/2022	A2G9A4	QC DGM	5	GEO_QC_1	Alex Kostera	A2G9A41	Interior
11/22/2022	A2G9A5	QC DGM	5	GEO_QC_1	Alex Kostera	A2G9A51	Interior
11/22/2022	A2G9A6	QC DGM	5	GEO_QC_1	Alex Kostera	A2G9A61	Interior
11/22/2022	A2G9B3	QC DGM	5	GEO_QC_1	Alex Kostera	A2G9B31	Interior
12/1/2022	A2G8C0	QC DGM	5	GEO_QC_1	Alex Kostera	A2G8C01	Interior
12/1/2022	A2G8C8	QC DGM	5	GEO_QC_1	Alex Kostera	A2G8C81	Interior
12/1/2022	A2G8D6	QC DGM	5	GEO_QC_1	Alex Kostera	A2G8D61	Interior
12/1/2022	A2G8D7	QC DGM	5	GEO_QC_1	Alex Kostera	A2G8D71	Interior
12/1/2022	A2G9B1	QC DGM	5	GEO_QC_1	Alex Kostera	A2G9B11	Interior
12/1/2022	A2G9B2	QC DGM	5	GEO_QC_1	Alex Kostera	A2G9B21	Interior
12/2/2022	A2G8C9	QC DGM	5	GEO_QC_1	Alex Kostera	A2G8C91	Interior
12/2/2022	A2G8F5	QC DGM	5	GEO_QC_1	Alex Kostera	A2G8F51	Interior
12/2/2022	A2G8G3	QC DGM	5	GEO_QC_1	Alex Kostera	A2G8G31	Interior
12/2/2022	A2G8G4	QC DGM	5	GEO_QC_1	Alex Kostera	A2G8G41	Interior
12/2/2022	A2G8H2	QC DGM	5	GEO_QC_1	Alex Kostera	A2G8H21	Interior

Figures





Legend

- Unit 5 Boundary
- Impact Area MRA Track 3 Boundary
- Former Fort Ord Boundary

2,000 0 2,000 Feet

MRS-BLM Unit 5
MEC Remedial Action Technical Memorandum
Former Fort Ord, California

Figure 1

Site Location Map

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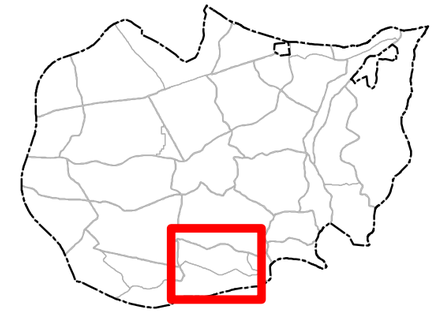


Previous Work (MR operations)

- Surface Removal/DGM Survey - 2013 (Gilbane/Shaw) AR# OE-0842
- DGM Survey and DGM Dig - 2010 (Shaw) AR# RI-047C
- OE Sampling, 100% (mag and dig, 4FT) - 1998 (USA) AR# OE-0287A
- Subsurface Removal (4FT) - 1997 (USA) AR# OE-0316
- Pond 21 - DGM Survey* - 2021 (USACE) AR# OE-1003

Previously Recovered MEC (see table below for list). All MEC was recovered from surface.

- Fuze, projectile, combination, M1907
- Projectile, 75mm, high explosive, M48**
- Rocket, 35mm, subcaliber, practice, M73
- Range Fan (approximate)
- Unit 5 Boundary
- Pond
- Impact Area MRA Boundary
- Former Fort Ord Boundary

Notes:
1) * Kemron/USACE consider Pond 21 (where DGM has been conducted with UXO escort) to be surface removal complete or not required.
2) ** MEC item was found on Vulcan Road during MEC remediation by USA in 1997. This portion of the road is within the Unit 5 boundary.
3) A list of previoulsy recovered MEC can also be found in Table 3 in the report.

N

0 200 400 800 Feet

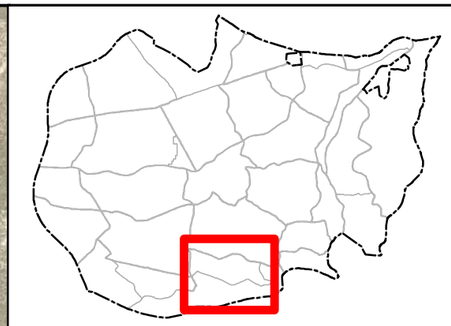
Previous remedial work areas:		
SW Corner (2013)	3.93	acres
HA-29	0.96	acres
Pond 21	0.85	acres
Forrestal Road	0.40	acres
Vulcan Road	0.29	acres
100' X 100' sample grid	0.23	acres
Total:	**6.7**	**acres**

Model Description	Date Found	Quantity	Grid ID	Unique ID	Contractor
Projectile, 75mm, high explosive, M48	11/6/1997	1	MRS-15_VULCAN ROAD 25-27	77800	USA
Fuze, projectile, combination, M1907	1/27/1998	1	MRS-15B_G 04	77903	USA
Rocket, 35mm, subcaliber, practice, M73	7/17/2013	1	A2G8B3	814777	GILBANE
Rocket, 35mm, subcaliber, practice, M73	7/17/2013	1	A2G8D3	814788	GILBANE
Rocket, 35mm, subcaliber, practice, M73	7/17/2013	1	A2G8B4	814780	GILBANE
Rocket, 35mm, subcaliber, practice, M73	7/17/2013	1	A2G8B4	814781	GILBANE

MRS-BLM Unit 5
MEC Remedial Action Technical Memorandum
Former Fort Ord, California

Figure 2

Previous Remedial Action
and MEC Recovered



Legend

MEC Removed During Remedial Action (07/18/22 – 09/22/22) - All MEC was recovered from surface.

- Grenade, hand, practice, M69
- Projectile, 37mm, low explosive, MK I
- Projectile, 37mm, low explosive, MK II
- Projectile, 40mm, high explosive, M383
- Projectile, 75mm, high explosive, M48
- Projectile, 75mm, high explosive, MK I
- Projectile, 75mm, shrapnel, MK I
- Projectile, 8-inch, high explosive, M106 Series
- Range Fan (approximate)
- Technology-Aided Surface MEC Removal Grid (Completed) - 124.7 acres*
- Pond
- Unit 5 Boundary
- Impact Area MRA Boundary
- Former Fort Ord Boundary

Previous Work (MR operations)

- Surface Removal/DGM Survey - 2013 (Gilbane/Shaw) AR# OE-0842
- DGM Survey and DGM Dig - 2010 (Shaw) HA-29, AR# RI-047C
- OE Sampling, 100% (mag and dig, 4FT) - 1998 (USA) AR# OE-0287A
- Subsurface Removal (4FT) - 1997 (USA) AR# OE-0316

Notes:
1) "Projectile, 8-inch, high explosive, M106 Series" was recovered by the UXO escort during vegetation removal (mastication) activities in November 2021.
2) The full list of MEC can be found in Table 5 of the report.
3) Surface removal was completed on Forrestal Rd, Vulcan Rd, 100'X100' sampling grid, and Ponds 21 and 76. Surface removal was not completed in the SW corner (2013 work) and HA-29.

Previous remedial work areas:		
SW Corner (2013)	3.93	acres
HA-29	0.96	acres
Pond 21	0.85	acres
Forrestal Road	0.40	acres
Vulcan Road	0.29	acres
100' X 100' sample grid	0.23	acres
Total:	**6.7**	**acres**

N

0 200 400 800 Feet

MRS-BLM Unit 5
MEC Remedial Action Technical Memorandum
Former Fort Ord, California

Figure 3

MEC Removed During Remedial Action

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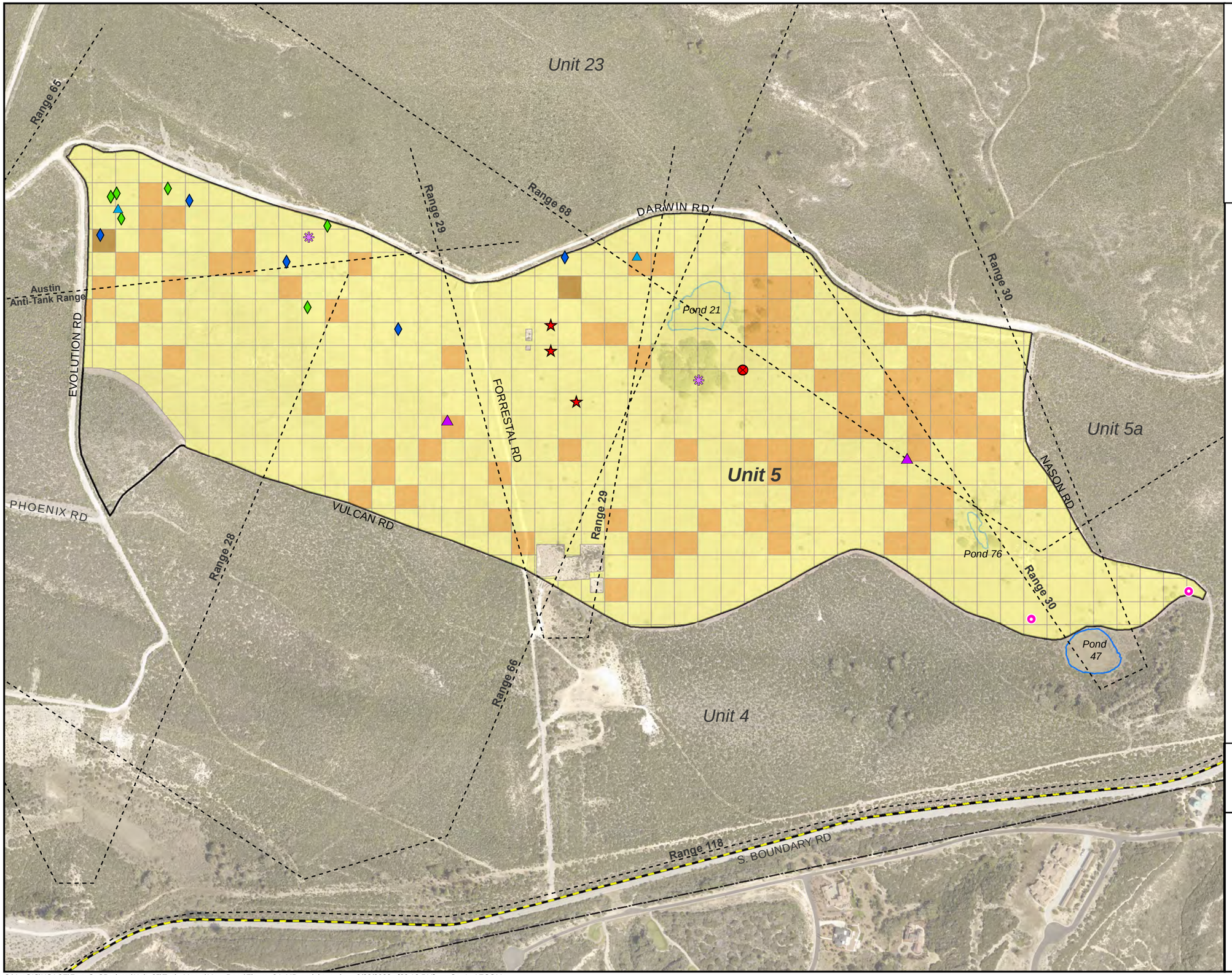

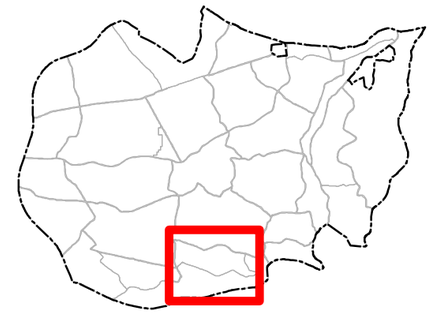

MEC Removed During Remedial Action (07/18/22 – 09/22/22)

- Grenade, hand, practice, M69
- Projectile, 37mm, low explosive, MK I
- Projectile, 37mm, low explosive, MK II
- Projectile, 40mm, high explosive, M383
- Projectile, 75mm, high explosive, M48
- Projectile, 75mm, high explosive, MK I
- Projectile, 75mm, shrapnel, MK I
- Projectile, 8-inch, high explosive, M106 Series

MD Removed (lbs) During Surface Removal (07/18/22 – 09/22/22)

- 0 - 10 lbs
- 11 - 25 lbs
- 26 - 63 lbs
- Range Fan (approximate)
- Unit 5 Boundary
- Pond
- Impact Area MRA Boundary
- Former Fort Ord Boundary

Notes:
1) "Projectile, 8-inch, high explosive, M106 Series" was recovered by the UXO escort during vegetation removal (mastication) activities in November 2021.
2) Surface removal had been conducted in the SW corner of the unit and was reported prior to this action (OE-0842).

N

0 200 400 800 Feet

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MRS-BLM Unit 5
MEC Remedial Action Technical Memorandum
Former Fort Ord, California

Figure 4

Weight of Surface MD Removed Per Grid

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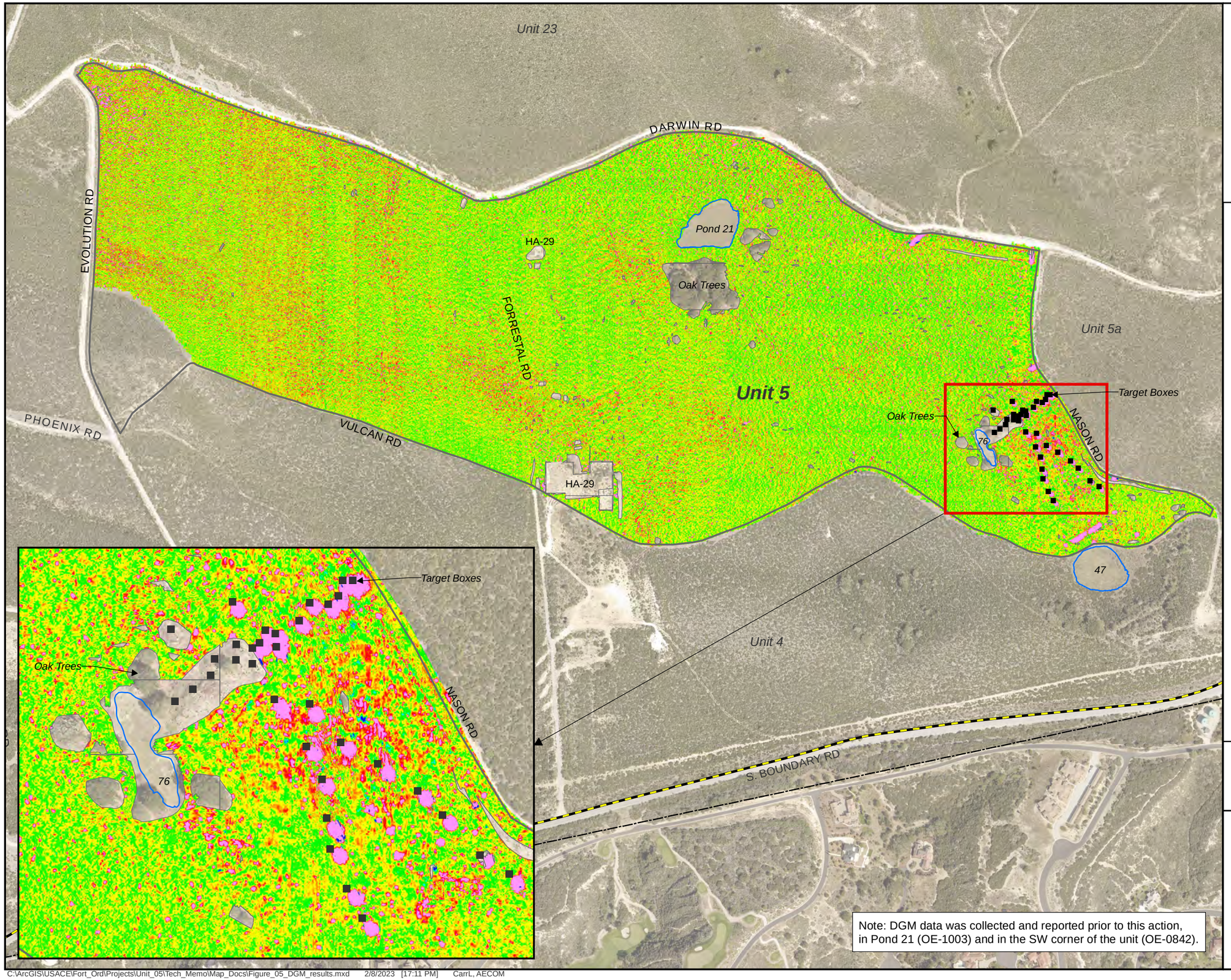

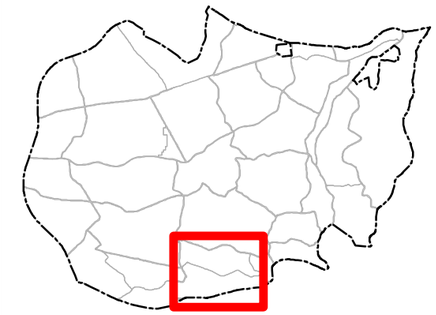

Legend

- Former Target Box (Concrete Vault)
- No DGM (previously completed area, vegetation, or cultural feature)
- Unit 5 Boundary
- Pond Boundary
- Impact Area MRA Boundary
- Former Fort Ord Boundary

DGM Survey Response Value Scale

20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0 -1 -2 -3 -4 -5 -6 -7 -8 -9 -10

mV
Sum

N

0 200 400 800 Feet

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MRS-BLM Unit 5
MEC Remedial Action
DGM Evaluation
Former Fort Ord, California

Figure 5

DGM Survey Results

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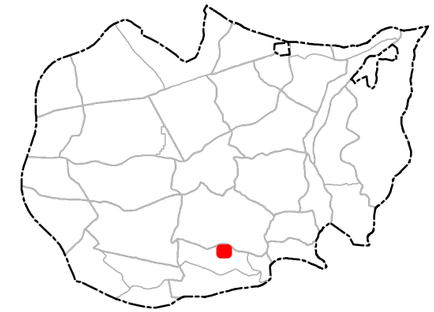

Legend

- Subsurface Target/Anomaly Investigated
- Analog Investigation Area (DGM Data
- Pond 21 Investigation Boundary

Notes:
1) Pond 21 DGM survey was conducted by USACE and reported in *Final DGM Survey in Vernal Pond 21 at Former Fort Ord, California. (AR# OE-1003)*
2) The total data gap/analog investigation area was 0.08 acres. OE-1003 reports the data gap area to be 0.06 acres due to omission of a data gap polygon that was included in the data delivery to the subcontractor, which has an area of 0.02 acres.
3) For investigation results, see Table 6 - "Intrusive Results from Pond 21"

N

0 15 30 60 Feet

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MRS-BLM Unit 5
MEC Remedial Action Technical Memorandum
Former Fort Ord, California

Figure 6

Geophysical Anomaly Investigation
in Pond 21

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Appendix A

DGM QC Reprocessing Summary

Unit	Size Acre	Dataset ID	GridID	Category	Geo Team	DGM Date	Geo Data Processed & Submitted	Selected for QC Reprocessing	Date Geo Data QC Complete	Number of QC Targets	QC Complete Initials
5	0.12	A3F2F31	A3F2F3	B	1	9/16/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.13	A3F2F31	A3F2F4	B	1	9/19/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.23	A3F2F31	A3F2G3	B	1	9/16/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.23	A3F2F31	A3F2G4	B	1	9/19/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.23	A3F2F31	A3F2H3	B	1	9/16/2022	10/4/2022	Y	10/10/2022	0	AZK
5	0.23	A3F2F31	A3F2H4	B	1	9/19/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.23	A3F2F31	A3F2I3	B	1	9/16/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.23	A3F2F31	A3F2I4	B	1	9/19/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.23	A3F2F31	A3F2J3	B	1	9/16/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.23	A3F2F31	A3F2J4	B	1	9/19/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.23	A3F2F31	A3G2A3	B	1	9/16/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.23	A3F2F31	A3G2A4	B	1	9/19/2022	10/4/2022	Y	10/10/2022	0	AZK
5	0.23	A3F2F31	A3G2B3	B	1	9/16/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.14	A3F2F31	A3G2B4	B	1	9/19/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.21	A3F2F31	A3G2C3	B	1	9/16/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.02	A3F2F31	A3G2C4	B	1	9/19/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.06	A3F2F31	A3G2D3	B	1	9/16/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.01	A3F2F31	A3G2E3	B	1	9/16/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.01	A3F2F31	A3G2G3	B	1	9/16/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.04	A3F2F31	A3G2H3	B	1	9/16/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.04	A3F2F31	A3G2I3	B	1	9/16/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.04	A3F2F51	A3F2F5	B	1	9/20/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.02	A3F2F51	A3F2F6	B	1	9/20/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.04	A3F2F51	A3F2F7	B	1	9/20/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.00	A3F2F51	A3F2F8	B	1	9/20/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.23	A3F2F51	A3F2G5	B	1	9/20/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.23	A3F2F51	A3F2G6	B	1	9/20/2022	10/4/2022	Y	10/10/2022	0	AZK
5	0.23	A3F2F51	A3F2G7	B	1	9/20/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.16	A3F2F51	A3F2G8	B	1	9/20/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.01	A3F2F51	A3F2G9	B	1	9/20/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.10	A3F2F51	A3F2H0	B	1	9/20/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.23	A3F2F51	A3F2H5	B	1	9/20/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.23	A3F2F51	A3F2H6	B	1	9/20/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.23	A3F2F51	A3F2H7	B	1	9/20/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.23	A3F2F51	A3F2H8	B	1	9/20/2022	10/4/2022	Y	10/10/2022	0	AZK
5	0.20	A3F2F51	A3F2H9	B	1	9/20/2022	10/4/2022	N	10/10/2022	0	AZK
5	0.23	A3F2I51	A3F2I5	B	1	9/22/2022	9/30/2022	Y	10/13/2022	0	AZK
5	0.20	A3F2I51	A3F2I6	B	1	9/22/2022	9/30/2022	N	10/13/2022	0	AZK
5	0.14	A3F2I51	A3F2I7	B	1	9/22/2022	9/30/2022	N	10/13/2022	0	AZK
5	0.09	A3F2I51	A3F2I8	B	1	9/22/2022	9/30/2022	N	10/13/2022	0	AZK
5	0.04	A3F2I51	A3F2I9	B	1	9/22/2022	9/30/2022	N	10/13/2022	0	AZK
5	0.16	A3F2I51	A3F2J5	B	1	9/22/2022	9/30/2022	N	10/13/2022	0	AZK
5	0.00	A3F2I51	A3F2J6	B	1	9/22/2022	9/30/2022	N	10/13/2022	0	AZK
5	0.03	A3F2I51	A3G2A5	B	1	9/22/2022	9/30/2022	N	10/13/2022	0	AZK
5	0.05	A3F2F21	A3F2F2	B	1	9/21/2022	10/6/2022	N	10/11/2022	0	AZK
5	0.23	A3F2F21	A3F2G2	B	1	9/21/2022	10/6/2022	N	10/11/2022	0	AZK
5	0.23	A3F2F21	A3F2H2	B	1	9/21/2022	10/6/2022	N	10/11/2022	0	AZK
5	0.23	A3F2F21	A3F2I2	B	1	9/21/2022	10/6/2022	N	10/11/2022	0	AZK
5	0.23	A3F2F21	A3F2J2	B	1	9/21/2022	10/6/2022	N	10/11/2022	0	AZK
5	0.23	A3F2F21	A3G2A2	B	1	9/21/2022	10/6/2022	N	10/11/2022	0	AZK
5	0.23	A3F2F21	A3G2B2	B	1	9/21/2022	10/6/2022	N	10/11/2022	0	AZK
5	0.23	A3F2F21	A3G2C2	B	1	9/21/2022	10/6/2022	Y	10/11/2022	0	AZK
5	0.23	A3F2F21	A3G2D2	B	1	9/21/2022	10/6/2022	N	10/11/2022	0	AZK
5	0.23	A3F2F21	A3G2E2	B	1	9/21/2022	10/6/2022	N	10/11/2022	0	AZK
5	0.22	A3F2F21	A3G2F2	B	1	9/21/2022	10/6/2022	N	10/11/2022	0	AZK
5	0.23	A3F2F21	A3G2G2	B	1	9/21/2022	10/6/2022	N	10/11/2022	0	AZK
5	0.23	A3F2F21	A3G2H2	B	1	9/21/2022	10/6/2022	N	10/11/2022	0	AZK
5	0.16	A3F2F21	A3G2I2	B	1	9/21/2022	10/6/2022	N	10/11/2022	0	AZK
5	0.23	A3G1I31	A3G1I0	B	1	9/22/2022	10/6/2022	N	10/13/2022	0	AZK
5	0.23	A3G1I31	A3G1I3	B	1	9/22/2022	10/6/2022	N	10/13/2022	0	AZK
5	0.23	A3G1I31	A3G1I4	B	1	9/22/2022	10/6/2022	N	10/13/2022	0	AZK
5	0.23	A3G1I31	A3G1I5	B	1	9/22/2022	10/6/2022	N	10/13/2022	0	AZK
5	0.23	A3G1I31	A3G1I6	B	1	9/22/2022	10/6/2022	Y	10/13/2022	0	AZK
5	0.23	A3G1I31	A3G1I7	B	1	9/22/2022	10/6/2022	N	10/13/2022	0	AZK

Unit	Size Acre	Dataset ID	GridID	Category	Geo Team	DGM Date	Geo Data Processed & Submitted	Selected for QC Reprocessing	Date Geo Data QC Complete	Number of QC Targets	QC Complete Initials
5	0.23	A3G1I31	A3G1I8	B	1	9/22/2022	10/6/2022	N	10/13/2022	0	AZK
5	0.23	A3G1I31	A3G1I9	B	1	9/22/2022	10/6/2022	N	10/13/2022	0	AZK
5	0.20	A3G1I31	A3G2I1	B	1	9/22/2022	10/6/2022	N	10/13/2022	0	AZK
5	0.23	A2G0C01	A2G0C0	B	1	9/30/2022	10/11/2022	N	10/13/2022	0	AZK
5	0.23	A2G0C01	A3G1C0	B	1	9/30/2022	10/11/2022	N	10/13/2022	0	AZK
5	0.23	A2G0C01	A3G1C1	B	1	9/30/2022	10/11/2022	N	10/13/2022	0	AZK
5	0.23	A2G0C01	A3G1C2	B	1	9/30/2022	10/11/2022	N	10/13/2022	0	AZK
5	0.23	A2G0C01	A3G1C3	B	1	9/30/2022	10/11/2022	N	10/13/2022	0	AZK
5	0.23	A2G0C01	A3G1C4	B	1	9/30/2022	10/11/2022	Y	10/13/2022	0	AZK
5	0.23	A2G0C01	A3G1C5	B	1	9/30/2022	10/11/2022	N	10/13/2022	0	AZK
5	0.23	A2G0C01	A3G1C6	B	1	9/30/2022	10/11/2022	N	10/13/2022	0	AZK
5	0.23	A2G0C01	A3G1C7	B	1	9/30/2022	10/11/2022	N	10/13/2022	0	AZK
5	0.23	A2G0C01	A3G1C8	B	1	9/30/2022	10/11/2022	N	10/13/2022	0	AZK
5	0.23	A2G0C01	A3G1C9	B	1	9/30/2022	10/11/2022	N	10/13/2022	0	AZK
5	0.23	A2G0C01	A3G2C1	B	1	9/30/2022	10/11/2022	N	10/13/2022	0	AZK
5	0.23	A2G0H01	A2G0H0	B	1	9/23/2022	10/7/2022	N	10/14/2022	0	AZK
5	0.23	A2G0H01	A3G1H0	B	1	9/23/2022	10/7/2022	N	10/14/2022	0	AZK
5	0.23	A2G0H01	A3G1H1	B	1	9/23/2022	10/7/2022	N	10/14/2022	0	AZK
5	0.23	A2G0H01	A3G1H2	B	1	9/23/2022	10/7/2022	N	10/14/2022	0	AZK
5	0.23	A2G0H01	A3G1H3	B	1	9/23/2022	10/7/2022	Y	10/14/2022	0	AZK
5	0.23	A2G0H01	A3G1H4	B	1	9/23/2022	10/7/2022	N	10/14/2022	0	AZK
5	0.23	A2G0H01	A3G1H5	B	1	9/23/2022	10/7/2022	N	10/14/2022	0	AZK
5	0.23	A2G0H01	A3G1H6	B	1	9/23/2022	10/7/2022	N	10/14/2022	0	AZK
5	0.23	A2G0H01	A3G1H7	B	1	9/23/2022	10/7/2022	N	10/14/2022	0	AZK
5	0.23	A2G0H01	A3G1H8	B	1	9/23/2022	10/7/2022	N	10/14/2022	0	AZK
5	0.23	A2G0H01	A3G1H9	B	1	9/23/2022	10/7/2022	N	10/14/2022	0	AZK
5	0.23	A2G0H01	A3G2H1	B	1	9/23/2022	10/7/2022	Y	10/14/2022	0	AZK
5	0.23	A2G0G71	A2G0G0	B	1	9/26/2022	10/10/2022	Y	10/14/2022	0	AZK
5	0.23	A2G0G71	A2G0G7	B	1	9/26/2022	10/10/2022	N	10/14/2022	0	AZK
5	0.23	A2G0G71	A2G0G8	B	1	9/26/2022	10/10/2022	N	10/14/2022	0	AZK
5	0.23	A2G0G71	A2G0G9	B	1	9/26/2022	10/10/2022	N	10/14/2022	0	AZK
5	0.23	A2G0G71	A2G0H7	B	1	9/26/2022	10/10/2022	N	10/14/2022	0	AZK
5	0.23	A2G0G71	A2G0H8	B	1	9/26/2022	10/10/2022	N	10/14/2022	0	AZK
5	0.23	A2G0G71	A2G0H9	B	1	9/26/2022	10/10/2022	N	10/14/2022	0	AZK
5	0.23	A2G0G71	A3G1G0	B	1	9/26/2022	10/10/2022	N	10/14/2022	0	AZK
5	0.23	A2G0G71	A3G1G1	B	1	9/26/2022	10/10/2022	N	10/14/2022	0	AZK
5	0.23	A2G0G71	A3G1G2	B	1	9/26/2022	10/10/2022	N	10/14/2022	0	AZK
5	0.23	A2G0G71	A3G1G3	B	1	9/26/2022	10/10/2022	N	10/14/2022	0	AZK
5	0.23	A2G0G71	A3G1G4	B	1	9/26/2022	10/10/2022	N	10/14/2022	0	AZK
5	0.23	A2G0G71	A3G1G5	B	1	9/26/2022	10/10/2022	N	10/14/2022	0	AZK
5	0.23	A2G0G71	A3G1G6	B	1	9/26/2022	10/10/2022	N	10/14/2022	0	AZK
5	0.23	A2G0G71	A3G1G7	B	1	9/26/2022	10/10/2022	N	10/14/2022	0	AZK
5	0.23	A2G0G71	A3G1G8	B	1	9/26/2022	10/10/2022	Y	10/14/2022	0	AZK
5	0.23	A2G0G71	A3G1G9	B	1	9/26/2022	10/10/2022	N	10/14/2022	0	AZK
5	0.23	A2G0G71	A3G2G1	B	1	9/26/2022	10/10/2022	N	10/14/2022	0	AZK
5	0.23	A2G0F01	A2G0F0	B	1	9/27/2022	10/10/2022	N	10/17/2022	0	AZK
5	0.23	A2G0F01	A3G1F0	B	1	9/27/2022	10/10/2022	N	10/17/2022	0	AZK
5	0.23	A2G0F01	A3G1F1	B	1	9/27/2022	10/10/2022	N	10/17/2022	0	AZK
5	0.23	A2G0F01	A3G1F2	B	1	9/27/2022	10/10/2022	N	10/17/2022	0	AZK
5	0.23	A2G0F01	A3G1F3	B	1	9/27/2022	10/10/2022	N	10/17/2022	0	AZK
5	0.23	A2G0F01	A3G1F4	B	1	9/27/2022	10/10/2022	N	10/17/2022	0	AZK
5	0.23	A2G0F01	A3G1F5	B	1	9/27/2022	10/10/2022	Y	10/17/2022	0	AZK
5	0.23	A2G0F01	A3G1F6	B	1	9/27/2022	10/10/2022	N	10/17/2022	0	AZK
5	0.23	A2G0F01	A3G1F7	B	1	9/27/2022	10/10/2022	N	10/17/2022	0	AZK
5	0.23	A2G0F01	A3G1F8	B	1	9/27/2022	10/10/2022	N	10/17/2022	0	AZK
5	0.23	A2G0F01	A3G1F9	B	1	9/27/2022	10/10/2022	N	10/17/2022	0	AZK
5	0.23	A2G0F01	A3G2F1	B	1	9/27/2022	10/10/2022	N	10/17/2022	0	AZK
5	0.23	A2G0E01	A2G0E0	B	1	9/28/2022	10/11/2022	N	10/17/2022	0	AZK
5	0.23	A2G0E01	A3G1E0	B	1	9/28/2022	10/11/2022	Y	10/17/2022	0	AZK
5	0.23	A2G0E01	A3G1E1	B	1	9/28/2022	10/11/2022	N	10/17/2022	0	AZK
5	0.23	A2G0E01	A3G1E2	B	1	9/28/2022	10/11/2022	Y	10/17/2022	0	AZK
5	0.23	A2G0E01	A3G1E3	B	1	9/28/2022	10/11/2022	N	10/17/2022	0	AZK
5	0.23	A2G0E01	A3G1E4	B	1	9/28/2022	10/11/2022	N	10/17/2022	0	AZK
5	0.23	A2G0E01	A3G1E5	B	1	9/28/2022	10/11/2022	N	10/17/2022	0	AZK
5	0.23	A2G0E01	A3G1E6	B	1	9/28/2022	10/11/2022	N	10/17/2022	0	AZK
5	0.23	A2G0E01	A3G1E7	B	1	9/28/2022	10/11/2022	N	10/17/2022	0	AZK
5	0.23	A2G0E01	A3G1E8	B	1	9/28/2022	10/11/2022	N	10/17/2022	0	AZK
5	0.23	A2G0E01	A3G1E9	B	1	9/28/2022	10/11/2022	N	10/17/2022	0	AZK
5	0.23	A2G0E01	A3G2E1	B	1	9/28/2022	10/11/2022	N	10/17/2022	0	AZK
5	0.23	A2G0D01	A2G0D0	B	1	9/29/2022	10/11/2022	N	10/17/2022	0	AZK

Unit	Size Acre	Dataset ID	GridID	Category	Geo Team	DGM Date	Geo Data Processed & Submitted	Selected for QC Reprocessing	Date Geo Data QC Complete	Number of QC Targets	QC Complete Initials
5	0.23	A2G0D01	A3G1D0	B	1	9/29/2022	10/11/2022	N	10/17/2022	0	AZK
5	0.23	A2G0D01	A3G1D1	B	1	9/29/2022	10/11/2022	N	10/17/2022	0	AZK

Unit	Size Acre	Dataset ID	GridID	Category	Geo Team	DGM Date	Geo Data Processed & Submitted	Selected for QC Reprocessing	Date Geo Data QC Complete	Number of QC Targets	QC Complete Initials
5	0.23	A2G0D01	A3G1D2	B	1	9/29/2022	10/11/2022	N	10/17/2022	0	AZK
5	0.23	A2G0D01	A3G1D3	B	1	9/29/2022	10/11/2022	N	10/17/2022	0	AZK
5	0.23	A2G0D01	A3G1D4	B	1	9/29/2022	10/11/2022	N	10/17/2022	0	AZK
5	0.23	A2G0D01	A3G1D5	B	1	9/29/2022	10/11/2022	N	10/17/2022	0	AZK
5	0.23	A2G0D01	A3G1D6	B	1	9/29/2022	10/11/2022	N	10/17/2022	0	AZK
5	0.23	A2G0D01	A3G1D7	B	1	9/29/2022	10/11/2022	Y	10/17/2022	0	AZK
5	0.23	A2G0D01	A3G1D8	B	1	9/29/2022	10/11/2022	N	10/17/2022	0	AZK
5	0.23	A2G0D01	A3G1D9	B	1	9/29/2022	10/11/2022	N	10/17/2022	0	AZK
5	0.23	A2G0D01	A3G2D1	B	1	9/29/2022	10/11/2022	N	10/17/2022	0	AZK
5	0.23	A2G0B01	A2G0B0	B	1	10/3/2022	10/11/2022	N	10/18/2022	0	AZK
5	0.23	A2G0B01	A3G1B0	B	1	10/3/2022	10/11/2022	N	10/18/2022	0	AZK
5	0.23	A2G0B01	A3G1B1	B	1	10/3/2022	10/11/2022	N	10/18/2022	0	AZK
5	0.23	A2G0B01	A3G1B2	B	1	10/3/2022	10/11/2022	Y	10/18/2022	0	AZK
5	0.23	A2G0B01	A3G1B3	B	1	10/3/2022	10/11/2022	N	10/18/2022	0	AZK
5	0.23	A2G0B01	A3G1B4	B	1	10/3/2022	10/11/2022	N	10/18/2022	0	AZK
5	0.23	A2G0B01	A3G1B5	B	1	10/3/2022	10/11/2022	N	10/18/2022	0	AZK
5	0.23	A2G0B01	A3G1B6	B	1	10/3/2022	10/11/2022	N	10/18/2022	0	AZK
5	0.23	A2G0B01	A3G1B7	B	1	10/3/2022	10/11/2022	N	10/18/2022	0	AZK
5	0.23	A2G0B01	A3G1B8	B	1	10/3/2022	10/11/2022	N	10/18/2022	0	AZK
5	0.23	A2G0B01	A3G1B9	B	1	10/3/2022	10/11/2022	Y	10/18/2022	0	AZK
5	0.23	A2G0B01	A3G2B1	B	1	10/3/2022	10/11/2022	N	10/18/2022	0	AZK
5	0.01	A3G1J61	A3G1J0	B	1	10/3/2022	10/12/2022	N	10/24/2022	0	AZK
5	0.15	A3G1J61	A3G1J6	B	1	10/3/2022	10/12/2022	N	10/24/2022	0	AZK
5	0.08	A3G1J61	A3G1J7	B	1	10/3/2022	10/12/2022	N	10/24/2022	0	AZK
5	0.07	A3G1J61	A3G1J8	B	1	10/3/2022	10/12/2022	Y	10/24/2022	0	AZK
5	0.05	A3G1J61	A3G1J9	B	1	10/3/2022	10/12/2022	N	10/24/2022	0	AZK
5	0.23	A2F0J01	A2F0J0	B	1	10/5/2022	10/11/2022	N	10/24/2022	0	AZK
5	0.22	A2F0J01	A3F1J0	B	1	10/5/2022	10/11/2022	N	10/24/2022	0	AZK
5	0.23	A2F0J01	A3F1J1	B	1	10/5/2022	10/11/2022	N	10/24/2022	0	AZK
5	0.23	A2F0J01	A3F1J2	B	1	10/5/2022	10/11/2022	N	10/24/2022	0	AZK
5	0.23	A2F0J01	A3F1J3	B	1	10/5/2022	10/11/2022	N	10/24/2022	0	AZK
5	0.23	A2F0J01	A3F1J4	B	1	10/5/2022	10/11/2022	Y	10/24/2022	0	AZK
5	0.19	A2F0J01	A3F1J5	B	1	10/5/2022	10/11/2022	N	10/24/2022	0	AZK
5	0.20	A2F0J01	A3F1J6	B	1	10/5/2022	10/11/2022	N	10/24/2022	0	AZK
5	0.23	A2F0J01	A3F1J7	B	1	10/5/2022	10/11/2022	N	10/24/2022	0	AZK
5	0.23	A2F0J01	A3F1J8	B	1	10/5/2022	10/11/2022	N	10/24/2022	0	AZK
5	0.23	A2F0J01	A3F1J9	B	1	10/5/2022	10/11/2022	N	10/24/2022	0	AZK
5	0.18	A2F0J01	A3F2J1	B	1	10/5/2022	10/6/2022	Y	10/24/2022	0	AZK
5	0.23	A2G0A01	A2G0A0	B	1	10/4/2022	10/11/2022	N	10/27/2022	0	AZK
5	0.17	A2G0A01	A3G1A0	B	1	10/4/2022	10/11/2022	N	10/27/2022	0	AZK
5	0.23	A2G0A01	A3G1A1	B	1	10/4/2022	10/11/2022	N	10/27/2022	0	AZK
5	0.23	A2G0A01	A3G1A2	B	1	10/4/2022	10/11/2022	N	10/27/2022	0	AZK
5	0.23	A2G0A01	A3G1A3	B	1	10/4/2022	10/11/2022	N	10/27/2022	0	AZK
5	0.23	A2G0A01	A3G1A4	B	1	10/4/2022	10/11/2022	N	10/27/2022	0	AZK
5	0.23	A2G0A01	A3G1A5	B	1	10/4/2022	10/11/2022	N	10/27/2022	0	AZK
5	0.23	A2G0A01	A3G1A6	B	1	10/4/2022	10/11/2022	Y	10/27/2022	0	AZK
5	0.23	A2G0A01	A3G1A7	B	1	10/4/2022	10/11/2022	N	10/27/2022	0	AZK
5	0.23	A2G0A01	A3G1A8	B	1	10/4/2022	10/11/2022	N	10/27/2022	0	AZK
5	0.23	A2G0A01	A3G1A9	B	1	10/4/2022	10/11/2022	N	10/27/2022	0	AZK
5	0.21	A2G0A01	A3G2A1	B	1	10/4/2022	10/11/2022	N	10/27/2022	0	AZK
5	0.23	A2F0I01	A2F0I0	B	1	10/6/2022	10/13/2022	N	10/27/2022	0	AZK
5	0.23	A2F0I01	A3F1I0	B	1	10/6/2022	10/13/2022	N	10/27/2022	0	AZK
5	0.23	A2F0I01	A3F1I1	B	1	10/6/2022	10/13/2022	Y	10/27/2022	0	AZK
5	0.23	A2F0I01	A3F1I2	B	1	10/6/2022	10/13/2022	N	10/27/2022	0	AZK
5	0.18	A2F0I01	A3F1I3	B	1	10/6/2022	10/13/2022	N	10/27/2022	0	AZK
5	0.06	A2F0I01	A3F1I4	B	1	10/6/2022	10/13/2022	N	10/27/2022	0	AZK
5	0.00	A2F0I01	A3F1I6	B	1	10/6/2022	10/13/2022	N	10/27/2022	0	AZK
5	0.09	A2F0I01	A3F1I7	B	1	10/6/2022	10/13/2022	N	10/27/2022	0	AZK
5	0.22	A2F0I01	A3F1I8	B	1	10/6/2022	10/13/2022	Y	10/27/2022	0	AZK
5	0.23	A2F0I01	A3F1I9	B	1	10/6/2022	10/13/2022	N	10/27/2022	0	AZK
5	0.23	A2F0I01	A3F2I1	B	1	10/6/2022	10/13/2022	N	10/27/2022	0	AZK
5	0.23	A2H0C31	A2H0C0	B	1	10/11/2022	10/13/2022	N	11/3/2022	0	AZK
5	0.01	A2H0C31	A2H0C3	B	1	10/11/2022	10/13/2022	N	11/3/2022	0	AZK
5	0.09	A2H0C31	A2H0C4	B	1	10/11/2022	10/13/2022	N	11/3/2022	0	AZK
5	0.20	A2H0C31	A2H0C5	B	1	10/11/2022	10/13/2022	N	11/3/2022	0	AZK
5	0.23	A2H0C31	A2H0C6	B	1	10/11/2022	10/13/2022	N	11/3/2022	0	AZK
5	0.23	A2H0C31	A2H0C7	B	1	10/11/2022	10/13/2022	N	11/3/2022	0	AZK
5	0.23	A2H0C31	A2H0C8	B	1	10/11/2022	10/13/2022	Y	11/3/2022	0	AZK
5	0.23	A2H0C31	A2H0C9	B	1	10/11/2022	10/13/2022	N	11/3/2022	0	AZK
5	0.11	A2H0C31	A2H0D0	B	1	10/11/2022	10/13/2022	N	11/3/2022	0	AZK

Unit	Size Acre	Dataset ID	GridID	Category	Geo Team	DGM Date	Geo Data Processed & Submitted	Selected for QC Reprocessing	Date Geo Data QC Complete	Number of QC Targets	QC Complete Initials
5	0.00	A2H0C31	A2H0D5	B	1	10/11/2022	10/13/2022	N	11/3/2022	0	AZK
5	0.07	A2H0C31	A2H0D6	B	1	10/11/2022	10/13/2022	N	11/3/2022	0	AZK
5	0.14	A2H0C31	A2H0D7	B	1	10/11/2022	10/13/2022	N	11/3/2022	0	AZK
5	0.15	A2H0C31	A2H0D8	B	1	10/11/2022	10/13/2022	N	11/3/2022	0	AZK
5	0.14	A2H0C31	A2H0D9	B	1	10/11/2022	10/13/2022	N	11/3/2022	0	AZK
5	0.23	A2H0C31	A3H1C1	B	1	10/11/2022	10/13/2022	N	11/3/2022	0	AZK
5	0.17	A2H0C31	A3H1C2	B	1	10/11/2022	10/13/2022	N	11/3/2022	0	AZK
5	0.03	A2H0C31	A3H1C3	B	1	10/11/2022	10/13/2022	N	11/3/2022	0	AZK
5	0.06	A2H0C31	A3H1D1	B	1	10/11/2022	10/13/2022	N	11/3/2022	0	AZK
5	0.00	A2H0C31	A3H1D2	B	1	10/11/2022	10/13/2022	N	11/3/2022	0	AZK
5	0.20	A2H9A01	A2H0A0	B	1	10/13/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.23	A2H9A01	A2H0A1	B	1	10/13/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.23	A2H9A01	A2H0A2	B	1	10/13/2022	10/14/2022	Y	11/7/2022	0	AZK
5	0.23	A2H9A01	A2H0A3	B	1	10/13/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.23	A2H9A01	A2H0A4	B	1	10/13/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.23	A2H9A01	A2H0A5	B	1	10/13/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.23	A2H9A01	A2H0A6	B	1	10/13/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.23	A2H9A01	A2H0A7	B	1	10/13/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.21	A2H9A01	A2H0A8	B	1	10/13/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.09	A2H9A01	A2H0A9	B	1	10/13/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.19	A2H9A01	A2H9A0	B	1	10/13/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.23	A2H9A01	A3H1A1	B	1	10/13/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.23	A2H9A01	A3H1A2	B	1	10/13/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.23	A2H9A01	A3H1A3	B	1	10/13/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.20	A2H9A01	A3H1A4	B	1	10/13/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.06	A2H9A01	A3H1A5	B	1	10/13/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.23	A2H0B11	A2H0B0	B	1	10/12/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.04	A2H0B11	A2H0B1	B	1	10/12/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.14	A2H0B11	A2H0B2	B	1	10/12/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.22	A2H0B11	A2H0B3	B	1	10/12/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.23	A2H0B11	A2H0B4	B	1	10/12/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.23	A2H0B11	A2H0B5	B	1	10/12/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.23	A2H0B11	A2H0B6	B	1	10/12/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.23	A2H0B11	A2H0B7	B	1	10/12/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.23	A2H0B11	A2H0B8	B	1	10/12/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.23	A2H0B11	A2H0B9	B	1	10/12/2022	10/14/2022	Y	11/7/2022	0	AZK
5	0.23	A2H0B11	A3H1B1	B	1	10/12/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.23	A2H0B11	A3H1B2	B	1	10/12/2022	10/14/2022	Y	11/7/2022	0	AZK
5	0.22	A2H0B11	A3H1B3	B	1	10/12/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.05	A2H0B11	A3H1B4	B	1	10/12/2022	10/14/2022	N	11/7/2022	0	AZK
5	0.07	A2F0G01	A2F0G0	B	1	10/7/2022	10/12/2022	N	11/7/2022	0	AZK
5	0.23	A2F0G01	A2F0H0	B	1	10/7/2022	10/12/2022	N	11/7/2022	0	AZK
5	0.09	A2F0G01	A3F1G0	B	1	10/7/2022	10/12/2022	N	11/7/2022	0	AZK
5	0.00	A2F0G01	A3F1G1	B	1	10/7/2022	10/12/2022	N	11/7/2022	0	AZK
5	0.00	A2F0G01	A3F1G9	B	1	10/7/2022	10/12/2022	N	11/7/2022	0	AZK
5	0.23	A2F0G01	A3F1H0	B	1	10/7/2022	10/12/2022	Y	11/7/2022	0	AZK
5	0.19	A2F0G01	A3F1H1	B	1	10/7/2022	10/12/2022	N	11/7/2022	0	AZK
5	0.08	A2F0G01	A3F1H2	B	1	10/7/2022	10/12/2022	N	11/7/2022	0	AZK
5	0.00	A2F0G01	A3F1H3	B	1	10/7/2022	10/12/2022	N	11/7/2022	0	AZK
5	0.03	A2F0G01	A3F1H8	B	1	10/7/2022	10/12/2022	N	11/7/2022	0	AZK
5	0.17	A2F0G01	A3F1H9	B	1	10/7/2022	10/12/2022	N	11/7/2022	0	AZK
5	0.17	A2F0G01	A3F2G1	B	1	10/7/2022	10/12/2022	N	11/7/2022	0	AZK
5	0.23	A2F0G01	A3F2H1	B	1	10/7/2022	10/12/2022	N	11/7/2022	0	AZK
5	0.00	A2F0H21	A2F0F5	B	1	10/14/2022	10/18/2022	N	11/8/2022	0	AZK
5	0.02	A2F0H21	A2F0F6	B	1	10/14/2022	10/18/2022	N	11/8/2022	0	AZK
5	0.02	A2F0H21	A2F0F7	B	1	10/14/2022	10/18/2022	N	11/8/2022	0	AZK
5	0.00	A2F0H21	A2F0F8	B	1	10/14/2022	10/18/2022	N	11/8/2022	0	AZK
5	0.06	A2F0H21	A2F0G4	B	1	10/14/2022	10/18/2022	N	11/8/2022	0	AZK
5	0.19	A2F0H21	A2F0G5	B	1	10/14/2022	10/18/2022	N	11/8/2022	0	AZK
5	0.23	A2F0H21	A2F0G6	B	1	10/14/2022	10/18/2022	N	11/8/2022	0	AZK
5	0.23	A2F0H21	A2F0G7	B	1	10/14/2022	10/18/2022	Y	11/8/2022	0	AZK
5	0.22	A2F0H21	A2F0G8	B	1	10/14/2022	10/18/2022	N	11/8/2022	0	AZK
5	0.15	A2F0H21	A2F0G9	B	1	10/14/2022	10/18/2022	N	11/8/2022	0	AZK
5	0.03	A2F0H21	A2F0H2	B	1	10/14/2022	10/18/2022	N	11/8/2022	0	AZK
5	0.16	A2F0H21	A2F0H3	B	1	10/14/2022	10/18/2022	N	11/8/2022	0	AZK
5	0.15	A2F0H21	A2F0H4	B	1	10/14/2022	10/18/2022	N	11/8/2022	0	AZK
5	0.04	A2F0H21	A2F0I2	B	1	10/14/2022	10/18/2022	N	11/8/2022	0	AZK
5	0.23	A2G0I71	A2G0I0	B	1	10/14/2022	10/17/2022	N	11/8/2022	0	AZK
5	0.21	A2G0I71	A2G0I7	B	1	10/14/2022	10/17/2022	N	11/8/2022	0	AZK
5	0.16	A2G0I71	A2G0I8	B	1	10/14/2022	10/17/2022	N	11/8/2022	0	AZK

Unit	Size Acre	Dataset ID	GridID	Category	Geo Team	DGM Date	Geo Data Processed & Submitted	Selected for QC Reprocessing	Date Geo Data QC Complete	Number of QC Targets	QC Complete Initials
5	0.16	A2G0I71	A2G0I9	B	1	10/14/2022	10/17/2022	N	11/8/2022	0	AZK
5	0.17	A2G0I71	A2G0J0	B	1	10/14/2022	10/17/2022	N	11/8/2022	0	AZK
5	0.22	A2G0I71	A2G0J7	B	1	10/14/2022	10/17/2022	N	11/8/2022	0	AZK
5	0.03	A2G0I71	A2G0J8	B	1	10/14/2022	10/17/2022	N	11/8/2022	0	AZK
5	0.23	A2G0I71	A3G1I1	B	1	10/14/2022	10/17/2022	N	11/8/2022	0	AZK
5	0.23	A2G0I71	A3G1I2	B	1	10/14/2022	10/17/2022	N	11/8/2022	0	AZK
5	0.23	A2G0I71	A3G1J1	B	1	10/14/2022	10/17/2022	Y	11/8/2022	0	AZK
5	0.23	A2G0I71	A3G1J2	B	1	10/14/2022	10/17/2022	N	11/8/2022	0	AZK
5	0.23	A2G0I71	A3G1J3	B	1	10/14/2022	10/17/2022	N	11/8/2022	0	AZK
5	0.23	A2G0I71	A3G1J4	B	1	10/14/2022	10/17/2022	N	11/8/2022	0	AZK
5	0.23	A2G0I71	A3G1J5	B	1	10/14/2022	10/17/2022	N	11/8/2022	0	AZK
5	0.23	A2F0H91	A2F0H9	B	1	10/17/2022	10/18/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H91	A2F0I9	B	1	10/17/2022	10/18/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H91	A2F0J9	B	1	10/17/2022	10/18/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H91	A2G0A9	B	1	10/17/2022	10/18/2022	Y	11/9/2022	0	AZK
5	0.23	A2F0H91	A2G0B9	B	1	10/17/2022	10/18/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H91	A2G0C9	B	1	10/17/2022	10/18/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H91	A2G0D9	B	1	10/17/2022	10/18/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H91	A2G0E9	B	1	10/17/2022	10/18/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H91	A2G0F9	B	1	10/17/2022	10/18/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H71	A2F0H7	B	1	10/18/2022	10/19/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H71	A2F0H8	B	1	10/18/2022	10/19/2022	Y	11/9/2022	0	AZK
5	0.23	A2F0H71	A2F0I7	B	1	10/18/2022	10/19/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H71	A2F0I8	B	1	10/18/2022	10/19/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H71	A2F0J7	B	1	10/18/2022	10/19/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H71	A2F0J8	B	1	10/18/2022	10/19/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H71	A2G0A7	B	1	10/18/2022	10/19/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H71	A2G0A8	B	1	10/18/2022	10/19/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H71	A2G0B7	B	1	10/18/2022	10/19/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H71	A2G0B8	B	1	10/18/2022	10/19/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H71	A2G0C7	B	1	10/18/2022	10/19/2022	Y	11/9/2022	0	AZK
5	0.23	A2F0H71	A2G0C8	B	1	10/18/2022	10/19/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H71	A2G0D7	B	1	10/18/2022	10/19/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H71	A2G0D8	B	1	10/18/2022	10/19/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H71	A2G0E7	B	1	10/18/2022	10/19/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H71	A2G0E8	B	1	10/18/2022	10/19/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H71	A2G0F7	B	1	10/18/2022	10/19/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H71	A2G0F8	B	1	10/18/2022	10/19/2022	N	11/9/2022	0	AZK
5	0.23	A2F0H61	A2F0H6	B	1	10/19/2022	10/26/2022	N	11/10/2022	0	AZK
5	0.23	A2F0H61	A2F0I6	B	1	10/19/2022	10/26/2022	Y	11/10/2022	0	AZK
5	0.23	A2F0H61	A2F0J6	B	1	10/19/2022	10/26/2022	N	11/10/2022	0	AZK
5	0.23	A2F0H61	A2G0A6	B	1	10/19/2022	10/26/2022	N	11/10/2022	0	AZK
5	0.23	A2F0H61	A2G0B6	B	1	10/19/2022	10/26/2022	N	11/10/2022	0	AZK
5	0.23	A2F0H61	A2G0C6	B	1	10/19/2022	10/26/2022	N	11/10/2022	0	AZK
5	0.23	A2F0H61	A2G0D6	B	1	10/19/2022	10/26/2022	N	11/10/2022	0	AZK
5	0.23	A2F0H61	A2G0E6	B	1	10/19/2022	10/26/2022	N	11/10/2022	0	AZK
5	0.23	A2F0H61	A2G0F6	B	1	10/19/2022	10/26/2022	N	11/10/2022	0	AZK
5	0.23	A2F0H61	A2G0G6	B	1	10/19/2022	10/26/2022	N	11/10/2022	0	AZK
5	0.23	A2F0H61	A2G0H6	B	1	10/19/2022	10/26/2022	Y	11/10/2022	0	AZK
5	0.23	A2F0H61	A2G0I6	B	1	10/19/2022	10/26/2022	N	11/10/2022	0	AZK
5	0.23	A2F0H61	A2G0J6	B	1	10/19/2022	10/26/2022	N	11/10/2022	0	AZK
5	0.23	A2F0H51	A2F0H5	B	1	10/20/2022	10/24/2022	N	11/11/2022	0	AZK
5	0.23	A2F0H51	A2F0I5	B	1	10/20/2022	10/24/2022	N	11/11/2022	0	AZK
5	0.23	A2F0H51	A2F0J5	B	1	10/20/2022	10/24/2022	N	11/11/2022	0	AZK
5	0.23	A2F0H51	A2G0A5	B	1	10/20/2022	10/24/2022	N	11/11/2022	0	AZK
5	0.23	A2F0H51	A2G0B5	B	1	10/20/2022	10/24/2022	N	11/11/2022	0	AZK
5	0.23	A2F0H51	A2G0C5	B	1	10/20/2022	10/24/2022	N	11/11/2022	0	AZK
5	0.23	A2F0H51	A2G0D5	B	1	10/20/2022	10/24/2022	N	11/11/2022	0	AZK
5	0.23	A2F0H51	A2G0E5	B	1	10/20/2022	10/24/2022	Y	11/11/2022	0	AZK
5	0.23	A2F0H51	A2G0F5	B	1	10/20/2022	10/24/2022	N	11/11/2022	0	AZK
5	0.23	A2F0H51	A2G0G5	B	1	10/20/2022	10/24/2022	N	11/11/2022	0	AZK
5	0.23	A2F0H51	A2G0H5	B	1	10/20/2022	10/24/2022	N	11/11/2022	0	AZK
5	0.23	A2F0H51	A2G0I5	B	1	10/20/2022	10/24/2022	N	11/11/2022	0	AZK
5	0.23	A2F0H51	A2G0J5	B	1	10/20/2022	10/24/2022	N	11/11/2022	0	AZK
5	0.05	A2F0I41	A2F0I4	B	1	10/21/2022	10/24/2022	N	11/11/2022	0	AZK
5	0.13	A2F0I41	A2F0J4	B	1	10/21/2022	10/24/2022	N	11/11/2022	0	AZK
5	0.23	A2F0I41	A2G0A4	B	1	10/21/2022	10/24/2022	N	11/11/2022	0	AZK
5	0.23	A2F0I41	A2G0B4	B	1	10/21/2022	10/24/2022	Y	11/11/2022	0	AZK
5	0.23	A2F0I41	A2G0C4	B	1	10/21/2022	10/24/2022	N	11/11/2022	0	AZK
5	0.23	A2F0I41	A2G0D4	B	1	10/21/2022	10/24/2022	N	11/11/2022	0	AZK

Unit	Size Acre	Dataset ID	GridID	Category	Geo Team	DGM Date	Geo Data Processed & Submitted	Selected for QC Reprocessing	Date Geo Data QC Complete	Number of QC Targets	QC Complete Initials
5	0.23	A2F0I41	A2G0E4	B	1	10/21/2022	10/24/2022	N	11/11/2022	0	AZK
5	0.23	A2F0I41	A2G0F4	B	1	10/21/2022	10/24/2022	N	11/11/2022	0	AZK
5	0.23	A2F0I41	A2G0G4	B	1	10/21/2022	10/24/2022	N	11/11/2022	0	AZK
5	0.23	A2F0I41	A2G0H4	B	1	10/21/2022	10/24/2022	N	11/11/2022	0	AZK
5	0.23	A2F0I41	A2G0I4	B	1	10/21/2022	10/24/2022	N	11/11/2022	0	AZK
5	0.23	A2F0I41	A2G0J4	B	1	10/21/2022	10/24/2022	Y	11/11/2022	0	AZK
5	0.01	A2F0I31	A2F0I3	B	1	10/24/2022	10/25/2022	N	11/14/2022	0	AZK
5	0.20	A2F0I31	A2F0J3	B	1	10/24/2022	10/25/2022	N	11/14/2022	0	AZK
5	0.23	A2F0I31	A2G0A3	B	1	10/24/2022	10/25/2022	N	11/14/2022	0	AZK
5	0.23	A2F0I31	A2G0B3	B	1	10/24/2022	10/25/2022	N	11/14/2022	0	AZK
5	0.23	A2F0I31	A2G0C3	B	1	10/24/2022	10/25/2022	N	11/14/2022	0	AZK
5	0.23	A2F0I31	A2G0D3	B	1	10/24/2022	10/25/2022	N	11/14/2022	0	AZK
5	0.23	A2F0I31	A2G0E3	B	1	10/24/2022	10/25/2022	N	11/14/2022	0	AZK
5	0.23	A2F0I31	A2G0F3	B	1	10/24/2022	10/25/2022	N	11/14/2022	0	AZK
5	0.23	A2F0I31	A2G0G3	B	1	10/24/2022	10/25/2022	Y	11/14/2022	0	AZK
5	0.23	A2F0I31	A2G0H3	B	1	10/24/2022	10/25/2022	N	11/14/2022	0	AZK
5	0.23	A2F0I31	A2G0I3	B	1	10/24/2022	10/25/2022	N	11/14/2022	0	AZK
5	0.23	A2F0I31	A2G0J3	B	1	10/24/2022	10/25/2022	N	11/14/2022	0	AZK
5	0.14	A2F0J21	A2F0J2	B	1	10/25/2022	10/27/2022	N	11/14/2022	0	AZK
5	0.23	A2F0J21	A2G0A2	B	1	10/25/2022	10/27/2022	N	11/14/2022	0	AZK
5	0.23	A2F0J21	A2G0B2	B	1	10/25/2022	10/27/2022	N	11/14/2022	0	AZK
5	0.23	A2F0J21	A2G0C2	B	1	10/25/2022	10/27/2022	N	11/14/2022	0	AZK
5	0.23	A2F0J21	A2G0D2	B	1	10/25/2022	10/27/2022	Y	11/14/2022	0	AZK
5	0.23	A2F0J21	A2G0E2	B	1	10/25/2022	10/27/2022	N	11/14/2022	0	AZK
5	0.23	A2F0J21	A2G0F2	B	1	10/25/2022	10/27/2022	N	11/14/2022	0	AZK
5	0.23	A2F0J21	A2G0G2	B	1	10/25/2022	10/27/2022	N	11/14/2022	0	AZK
5	0.23	A2F0J21	A2G0H2	B	1	10/25/2022	10/27/2022	N	11/14/2022	0	AZK
5	0.23	A2F0J21	A2G0I2	B	1	10/25/2022	10/27/2022	N	11/14/2022	0	AZK
5	0.23	A2F0J21	A2G0J2	B	1	10/25/2022	10/27/2022	N	11/14/2022	0	AZK
5	0.04	A2F9I01	A2F9I0	B	1	10/27/2022	10/31/2022	N	11/15/2022	0	AZK
5	0.23	A2F9I01	A2F9J0	B	1	10/27/2022	10/31/2022	Y	11/15/2022	0	AZK
5	0.23	A2F9I01	A2G9A0	B	1	10/27/2022	10/31/2022	N	11/15/2022	0	AZK
5	0.23	A2F9I01	A2G9B0	B	1	10/27/2022	10/31/2022	N	11/15/2022	0	AZK
5	0.23	A2F9I01	A2G9C0	B	1	10/27/2022	10/31/2022	N	11/15/2022	0	AZK
5	0.23	A2F9I01	A2G9D0	B	1	10/27/2022	10/31/2022	N	11/15/2022	0	AZK
5	0.23	A2F9I01	A2G9E0	B	1	10/27/2022	10/31/2022	N	11/15/2022	0	AZK
5	0.23	A2F9I01	A2G9F0	B	1	10/27/2022	10/31/2022	Y	11/15/2022	0	AZK
5	0.23	A2F9I01	A2G9G0	B	1	10/27/2022	10/31/2022	N	11/15/2022	0	AZK
5	0.23	A2F9I01	A2G9H0	B	1	10/27/2022	10/31/2022	N	11/15/2022	0	AZK
5	0.23	A2F9I01	A2G9I0	B	1	10/27/2022	10/31/2022	N	11/15/2022	0	AZK
5	0.23	A2F9I01	A2G9J0	B	1	10/27/2022	10/31/2022	N	11/15/2022	0	AZK
5	0.13	A2F0I11	A2F0I1	B	1	10/27/2022	10/31/2022	N	11/15/2022	0	AZK
5	0.23	A2F0I11	A2F0J1	B	1	10/27/2022	10/31/2022	N	11/15/2022	0	AZK
5	0.23	A2F0I11	A2G0A1	B	1	10/27/2022	10/31/2022	Y	11/15/2022	0	AZK
5	0.23	A2F0I11	A2G0B1	B	1	10/27/2022	10/31/2022	N	11/15/2022	0	AZK
5	0.23	A2F0I11	A2G0C1	B	1	10/27/2022	10/31/2022	N	11/15/2022	0	AZK
5	0.23	A2F0I11	A2G0D1	B	1	10/27/2022	10/31/2022	N	11/15/2022	0	AZK
5	0.23	A2F0I11	A2G0E1	B	1	10/27/2022	10/31/2022	N	11/15/2022	0	AZK
5	0.23	A2F0I11	A2G0F1	B	1	10/27/2022	10/31/2022	N	11/15/2022	0	AZK
5	0.23	A2F0I11	A2G0G1	B	1	10/27/2022	10/31/2022	N	11/15/2022	0	AZK
5	0.22	A2F0I11	A2G0H1	B	1	10/27/2022	10/31/2022	N	11/15/2022	0	AZK
5	0.20	A2F0I11	A2G0I1	B	1	10/27/2022	10/31/2022	Y	11/15/2022	0	AZK
5	0.23	A2F0I11	A2G0J1	B	1	10/27/2022	10/31/2022	N	11/15/2022	0	AZK
5	0.18	A2F9J91	A2F9J9	B	1	10/28/2022	10/31/2022	N	11/17/2022	0	AZK
5	0.23	A2F9J91	A2G9A9	B	1	10/28/2022	10/31/2022	N	11/17/2022	0	AZK
5	0.23	A2F9J91	A2G9B9	B	1	10/28/2022	10/31/2022	N	11/17/2022	0	AZK
5	0.23	A2F9J91	A2G9C9	B	1	10/28/2022	10/31/2022	Y	11/17/2022	0	AZK
5	0.23	A2F9J91	A2G9D9	B	1	10/28/2022	10/31/2022	N	11/17/2022	0	AZK
5	0.23	A2F9J91	A2G9E9	B	1	10/28/2022	10/31/2022	N	11/17/2022	0	AZK
5	0.23	A2F9J91	A2G9F9	B	1	10/28/2022	10/31/2022	N	11/17/2022	0	AZK
5	0.23	A2F9J91	A2G9G9	B	1	10/28/2022	10/31/2022	N	11/17/2022	0	AZK
5	0.23	A2F9J91	A2G9H9	B	1	10/28/2022	10/31/2022	N	11/17/2022	0	AZK
5	0.23	A2F9J91	A2G9I9	B	1	10/28/2022	10/31/2022	N	11/17/2022	0	AZK
5	0.23	A2F9J91	A2G9J9	B	1	10/28/2022	10/31/2022	N	11/17/2022	0	AZK
5	0.16	A2F9J91	A2H9A9	B	1	10/28/2022	10/31/2022	N	11/17/2022	0	AZK
5	0.09	A2F9J81	A2F9J8	B	1	11/1/2022	11/2/2022	N	11/17/2022	0	AZK
5	0.23	A2F9J81	A2G9A8	B	1	11/1/2022	11/2/2022	N	11/17/2022	0	AZK
5	0.23	A2F9J81	A2G9B8	B	1	11/1/2022	11/2/2022	N	11/17/2022	0	AZK
5	0.23	A2F9J81	A2G9C8	B	1	11/1/2022	11/2/2022	N	11/17/2022	0	AZK
5	0.23	A2F9J81	A2G9D8	B	1	11/1/2022	11/2/2022	N	11/17/2022	0	AZK

Unit	Size Acre	Dataset ID	GridID	Category	Geo Team	DGM Date	Geo Data Processed & Submitted	Selected for QC Reprocessing	Date Geo Data QC Complete	Number of QC Targets	QC Complete Initials
5	0.23	A2F9J81	A2G9E8	B	1	11/1/2022	11/2/2022	N	11/17/2022	0	AZK
5	0.23	A2F9J81	A2G9F8	B	1	11/1/2022	11/2/2022	N	11/17/2022	0	AZK
5	0.23	A2F9J81	A2G9G8	B	1	11/1/2022	11/2/2022	N	11/17/2022	0	AZK
5	0.23	A2F9J81	A2G9H8	B	1	11/1/2022	11/2/2022	Y	11/17/2022	0	AZK
5	0.23	A2F9J81	A2G9I8	B	1	11/1/2022	11/2/2022	N	11/17/2022	0	AZK
5	0.23	A2F9J81	A2G9J8	B	1	11/1/2022	11/2/2022	N	11/17/2022	0	AZK
5	0.21	A2F9J81	A2H9A8	B	1	11/1/2022	11/2/2022	N	11/17/2022	0	AZK
5	0.01	A2F9J81	A2H9B8	B	1	11/1/2022	11/2/2022	N	11/17/2022	0	AZK
5	0.02	A2F9J71	A2F9J7	B	1	11/1/2022	11/2/2022	N	11/22/2022	0	AZK
5	0.23	A2F9J71	A2G9A7	B	1	11/1/2022	11/2/2022	N	11/22/2022	0	AZK
5	0.23	A2F9J71	A2G9B7	B	1	11/1/2022	11/2/2022	N	11/22/2022	0	AZK
5	0.23	A2F9J71	A2G9C7	B	1	11/1/2022	11/2/2022	N	11/22/2022	0	AZK
5	0.23	A2F9J71	A2G9D7	B	1	11/1/2022	11/2/2022	N	11/22/2022	0	AZK
5	0.23	A2F9J71	A2G9E7	B	1	11/1/2022	11/2/2022	Y	11/22/2022	0	AZK
5	0.23	A2F9J71	A2G9F7	B	1	11/1/2022	11/2/2022	N	11/22/2022	0	AZK
5	0.23	A2F9J71	A2G9G7	B	1	11/1/2022	11/2/2022	N	11/22/2022	0	AZK
5	0.23	A2F9J71	A2G9H7	B	1	11/1/2022	11/2/2022	N	11/22/2022	0	AZK
5	0.23	A2F9J71	A2G9I7	B	1	11/1/2022	11/2/2022	N	11/22/2022	0	AZK
5	0.23	A2F9J71	A2G9J7	B	1	11/1/2022	11/2/2022	N	11/22/2022	0	AZK
5	0.23	A2F9J71	A2H9A7	B	1	11/1/2022	11/2/2022	N	11/22/2022	0	AZK
5	0.11	A2F9J71	A2H9B7	B	1	11/1/2022	11/2/2022	N	11/22/2022	0	AZK
5	0.16	A2G9A61	A2G9A6	B	1	11/2/2022	11/3/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A61	A2G9B6	B	1	11/2/2022	11/3/2022	Y	11/22/2022	0	AZK
5	0.23	A2G9A61	A2G9C6	B	1	11/2/2022	11/3/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A61	A2G9D6	B	1	11/2/2022	11/3/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A61	A2G9E6	B	1	11/2/2022	11/3/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A61	A2G9F6	B	1	11/2/2022	11/3/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A61	A2G9G6	B	1	11/2/2022	11/3/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A61	A2G9H6	B	1	11/2/2022	11/3/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A61	A2G9I6	B	1	11/2/2022	11/3/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A61	A2G9J6	B	1	11/2/2022	11/3/2022	Y	11/22/2022	0	AZK
5	0.23	A2G9A61	A2H9A6	B	1	11/2/2022	11/3/2022	N	11/22/2022	0	AZK
5	0.21	A2G9A61	A2H9B6	B	1	11/2/2022	11/3/2022	N	11/22/2022	0	AZK
5	0.01	A2G9A61	A2H9C6	B	1	11/2/2022	11/3/2022	N	11/22/2022	0	AZK
5	0.08	A2G9A51	A2G9A5	B	1	11/9/2022	11/10/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A51	A2G9B5	B	1	11/9/2022	11/10/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A51	A2G9C5	B	1	11/9/2022	11/10/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A51	A2G9D5	B	1	11/9/2022	11/10/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A51	A2G9E5	B	1	11/9/2022	11/10/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A51	A2G9F5	B	1	11/9/2022	11/10/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A51	A2G9G5	B	1	11/9/2022	11/10/2022	Y	11/22/2022	0	AZK
5	0.23	A2G9A51	A2G9H5	B	1	11/9/2022	11/10/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A51	A2G9I5	B	1	11/9/2022	11/10/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A51	A2G9J5	B	1	11/9/2022	11/10/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A51	A2H9A5	B	1	11/9/2022	11/10/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A51	A2H9B5	B	1	11/9/2022	11/10/2022	N	11/22/2022	0	AZK
5	0.11	A2G9A51	A2H9C5	B	1	11/9/2022	11/10/2022	N	11/22/2022	0	AZK
5	0.01	A2G9A41	A2G9A4	B	1	11/10/2022	11/11/2022	N	11/22/2022	0	AZK
5	0.21	A2G9A41	A2G9B4	B	1	11/10/2022	11/11/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A41	A2G9C4	B	1	11/10/2022	11/11/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A41	A2G9D4	B	1	11/10/2022	11/11/2022	Y	11/22/2022	0	AZK
5	0.23	A2G9A41	A2G9E4	B	1	11/10/2022	11/11/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A41	A2G9F4	B	1	11/10/2022	11/11/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A41	A2G9G4	B	1	11/10/2022	11/11/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A41	A2G9H4	B	1	11/10/2022	11/11/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A41	A2G9I4	B	1	11/10/2022	11/11/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A41	A2G9J4	B	1	11/10/2022	11/11/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A41	A2H9A4	B	1	11/10/2022	11/11/2022	N	11/22/2022	0	AZK
5	0.23	A2G9A41	A2H9B4	B	1	11/10/2022	11/11/2022	Y	11/22/2022	0	AZK
5	0.21	A2G9A41	A2H9C4	B	1	11/10/2022	11/11/2022	N	11/22/2022	0	AZK
5	0.00	A2G9A41	A2H9D4	B	1	11/10/2022	11/11/2022	N	11/22/2022	0	AZK
5	0.14	A2G9B31	A2G9B3	B	1	11/11/2022	11/16/2022	N	11/22/2022	0	AZK
5	0.23	A2G9B31	A2G9C3	B	1	11/11/2022	11/16/2022	N	11/22/2022	0	AZK
5	0.23	A2G9B31	A2G9D3	B	1	11/11/2022	11/16/2022	N	11/22/2022	0	AZK
5	0.23	A2G9B31	A2G9E3	B	1	11/11/2022	11/16/2022	N	11/22/2022	0	AZK
5	0.23	A2G9B31	A2G9F3	B	1	11/11/2022	11/16/2022	N	11/22/2022	0	AZK
5	0.23	A2G9B31	A2G9G3	B	1	11/11/2022	11/16/2022	N	11/22/2022	0	AZK
5	0.23	A2G9B31	A2G9H3	B	1	11/11/2022	11/16/2022	N	11/22/2022	0	AZK
5	0.23	A2G9B31	A2G9I3	B	1	11/11/2022	11/16/2022	Y	11/22/2022	0	AZK
5	0.23	A2G9B31	A2G9J3	B	1	11/11/2022	11/16/2022	N	11/22/2022	0	AZK

Unit	Size Acre	Dataset ID	GridID	Category	Geo Team	DGM Date	Geo Data Processed & Submitted	Selected for QC Reprocessing	Date Geo Data QC Complete	Number of QC Targets	QC Complete Initials
5	0.23	A2G9B31	A2H9A3	B	1	11/11/2022	11/16/2022	N	11/22/2022	0	AZK
5	0.23	A2G9B31	A2H9B3	B	1	11/11/2022	11/16/2022	N	11/22/2022	0	AZK
5	0.23	A2G9B31	A2H9C3	B	1	11/11/2022	11/16/2022	N	11/22/2022	0	AZK
5	0.06	A2G9B31	A2H9D3	B	1	11/11/2022	11/16/2022	N	11/22/2022	0	AZK
5	0.08	A2G9B21	A2G9B2	B	1	11/11/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.23	A2G9B21	A2G9C2	B	1	11/11/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.23	A2G9B21	A2G9D2	B	1	11/11/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.23	A2G9B21	A2G9E2	B	1	11/11/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.23	A2G9B21	A2G9F2	B	1	11/11/2022	11/16/2022	Y	12/1/2022	0	AZK
5	0.23	A2G9B21	A2G9G2	B	1	11/11/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.23	A2G9B21	A2G9H2	B	1	11/11/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.23	A2G9B21	A2G9I2	B	1	11/11/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.23	A2G9B21	A2G9J2	B	1	11/11/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.23	A2G9B21	A2H9A2	B	1	11/11/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.23	A2G9B21	A2H9B2	B	1	11/11/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.23	A2G9B21	A2H9C2	B	1	11/11/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.13	A2G9B21	A2H9D2	B	1	11/11/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.01	A2G9B11	A2G9B1	B	1	11/14/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.22	A2G9B11	A2G9C1	B	1	11/14/2022	11/16/2022	Y	12/1/2022	0	AZK
5	0.23	A2G9B11	A2G9D1	B	1	11/14/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.23	A2G9B11	A2G9E1	B	1	11/14/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.23	A2G9B11	A2G9F1	B	1	11/14/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.23	A2G9B11	A2G9G1	B	1	11/14/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.23	A2G9B11	A2G9H1	B	1	11/14/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.23	A2G9B11	A2G9I1	B	1	11/14/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.23	A2G9B11	A2G9J1	B	1	11/14/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.23	A2G9B11	A2H9A1	B	1	11/14/2022	11/16/2022	Y	12/1/2022	0	AZK
5	0.23	A2G9B11	A2H9B1	B	1	11/14/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.23	A2G9B11	A2H9C1	B	1	11/14/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.19	A2G9B11	A2H9D1	B	1	11/14/2022	11/16/2022	N	12/1/2022	0	AZK
5	0.16	A2G8C01	A2G8C0	B	1	11/15/2022	11/17/2022	N	12/1/2022	0	AZK
5	0.23	A2G8C01	A2G8D0	B	1	11/15/2022	11/17/2022	N	12/1/2022	0	AZK
5	0.23	A2G8C01	A2G8E0	B	1	11/15/2022	11/17/2022	N	12/1/2022	0	AZK
5	0.23	A2G8C01	A2G8F0	B	1	11/15/2022	11/17/2022	N	12/1/2022	0	AZK
5	0.23	A2G8C01	A2G8G0	B	1	11/15/2022	11/17/2022	N	12/1/2022	0	AZK
5	0.23	A2G8C01	A2G8H0	B	1	11/15/2022	11/17/2022	Y	12/1/2022	0	AZK
5	0.23	A2G8C01	A2G8I0	B	1	11/15/2022	11/17/2022	N	12/1/2022	0	AZK
5	0.23	A2G8C01	A2G8J0	B	1	11/15/2022	11/17/2022	N	12/1/2022	0	AZK
5	0.23	A2G8C01	A2H8A0	B	1	11/15/2022	11/17/2022	N	12/1/2022	0	AZK
5	0.23	A2G8C01	A2H8B0	B	1	11/15/2022	11/17/2022	N	12/1/2022	0	AZK
5	0.23	A2G8C01	A2H8C0	B	1	11/15/2022	11/17/2022	N	12/1/2022	0	AZK
5	0.23	A2G8C01	A2H8D0	B	1	11/15/2022	11/17/2022	N	12/1/2022	0	AZK
5	0.03	A2G8C01	A2H8E0	B	1	11/15/2022	11/17/2022	N	12/1/2022	0	AZK
5	0.00	A2G8C81	A2G8C8	B	1	11/17/2022	11/28/2022	N	12/1/2022	0	AZK
5	0.21	A2G8C81	A2G8D8	B	1	11/17/2022	11/28/2022	N	12/1/2022	0	AZK
5	0.23	A2G8C81	A2G8E8	B	1	11/17/2022	11/28/2022	N	12/1/2022	0	AZK
5	0.23	A2G8C81	A2G8F8	B	1	11/17/2022	11/28/2022	N	12/1/2022	0	AZK
5	0.23	A2G8C81	A2G8G8	B	1	11/17/2022	11/28/2022	N	12/1/2022	0	AZK
5	0.23	A2G8C81	A2G8H8	B	1	11/17/2022	11/28/2022	N	12/1/2022	0	AZK
5	0.23	A2G8C81	A2G8I8	B	1	11/17/2022	11/28/2022	N	12/1/2022	0	AZK
5	0.23	A2G8C81	A2G8J8	B	1	11/17/2022	11/28/2022	Y	12/1/2022	0	AZK
5	0.23	A2G8C81	A2H8A8	B	1	11/17/2022	11/28/2022	N	12/1/2022	0	AZK
5	0.23	A2G8C81	A2H8B8	B	1	11/17/2022	11/28/2022	N	12/1/2022	0	AZK
5	0.23	A2G8C81	A2H8C8	B	1	11/17/2022	11/28/2022	N	12/1/2022	0	AZK
5	0.23	A2G8C81	A2H8D8	B	1	11/17/2022	11/28/2022	N	12/1/2022	0	AZK
5	0.19	A2G8C81	A2H8E8	B	1	11/17/2022	11/28/2022	N	12/1/2022	0	AZK
5	0.12	A2G8D71	A2G8D7	B	1	11/18/2022	11/29/2022	N	12/1/2022	0	AZK
5	0.23	A2G8D71	A2G8E7	B	1	11/18/2022	11/29/2022	N	12/1/2022	0	AZK
5	0.23	A2G8D71	A2G8F7	B	1	11/18/2022	11/29/2022	N	12/1/2022	0	AZK
5	0.23	A2G8D71	A2G8G7	B	1	11/18/2022	11/29/2022	Y	12/1/2022	0	AZK
5	0.23	A2G8D71	A2G8H7	B	1	11/18/2022	11/29/2022	N	12/1/2022	0	AZK
5	0.23	A2G8D71	A2G8I7	B	1	11/18/2022	11/29/2022	N	12/1/2022	0	AZK
5	0.23	A2G8D71	A2G8J7	B	1	11/18/2022	11/29/2022	N	12/1/2022	0	AZK
5	0.23	A2G8D71	A2H8A7	B	1	11/18/2022	11/29/2022	N	12/1/2022	0	AZK
5	0.23	A2G8D71	A2H8B7	B	1	11/18/2022	11/29/2022	N	12/1/2022	0	AZK
5	0.23	A2G8D71	A2H8C7	B	1	11/18/2022	11/29/2022	N	12/1/2022	0	AZK
5	0.23	A2G8D71	A2H8D7	B	1	11/18/2022	11/29/2022	N	12/1/2022	0	AZK
5	0.23	A2G8D71	A2H8E7	B	1	11/18/2022	11/29/2022	Y	12/1/2022	0	AZK
5	0.05	A2G8D71	A2H8F7	B	1	11/18/2022	11/29/2022	N	12/1/2022	0	AZK
5	0.00	A2G8D61	A2G8D6	B	1	11/19/2022	11/29/2022	N	12/1/2022	0	AZK

Unit	Size Acre	Dataset ID	GridID	Category	Geo Team	DGM Date	Geo Data Processed & Submitted	Selected for QC Reprocessing	Date Geo Data QC Complete	Number of QC Targets	QC Complete Initials
5	0.10	A2G8D61	A2G8E6	B	1	11/19/2022	11/29/2022	N	12/1/2022	0	AZK
5	0.23	A2G8D61	A2G8F6	B	1	11/19/2022	11/29/2022	N	12/1/2022	0	AZK
5	0.23	A2G8D61	A2G8G6	B	1	11/19/2022	11/29/2022	N	12/1/2022	0	AZK
5	0.23	A2G8D61	A2G8H6	B	1	11/19/2022	11/29/2022	N	12/1/2022	0	AZK
5	0.23	A2G8D61	A2G8I6	B	1	11/19/2022	11/29/2022	N	12/1/2022	0	AZK
5	0.23	A2G8D61	A2G8J6	B	1	11/19/2022	11/29/2022	N	12/1/2022	0	AZK
5	0.23	A2G8D61	A2H8A6	B	1	11/19/2022	11/29/2022	N	12/1/2022	0	AZK
5	0.23	A2G8D61	A2H8B6	B	1	11/19/2022	11/29/2022	Y	12/1/2022	0	AZK
5	0.23	A2G8D61	A2H8C6	B	1	11/19/2022	11/29/2022	N	12/1/2022	0	AZK
5	0.23	A2G8D61	A2H8D6	B	1	11/19/2022	11/29/2022	N	12/1/2022	0	AZK
5	0.23	A2G8D61	A2H8E6	B	1	11/19/2022	11/29/2022	N	12/1/2022	0	AZK
5	0.14	A2G8D61	A2H8F6	B	1	11/19/2022	11/29/2022	N	12/1/2022	0	AZK
5	0.08	A2G8C91	A2G8C9	B	1	11/16/2022	11/17/2022	N	12/2/2022	0	AZK
5	0.23	A2G8C91	A2G8D9	B	1	11/16/2022	11/17/2022	N	12/2/2022	0	AZK
5	0.23	A2G8C91	A2G8E9	B	1	11/16/2022	11/17/2022	Y	12/2/2022	0	AZK
5	0.23	A2G8C91	A2G8F9	B	1	11/16/2022	11/17/2022	N	12/2/2022	0	AZK
5	0.23	A2G8C91	A2G8G9	B	1	11/16/2022	11/17/2022	N	12/2/2022	0	AZK
5	0.23	A2G8C91	A2G8H9	B	1	11/16/2022	11/17/2022	N	12/2/2022	0	AZK
5	0.23	A2G8C91	A2G8I9	B	1	11/16/2022	11/17/2022	N	12/2/2022	0	AZK
5	0.23	A2G8C91	A2G8J9	B	1	11/16/2022	11/17/2022	N	12/2/2022	0	AZK
5	0.23	A2G8C91	A2H8A9	B	1	11/16/2022	11/17/2022	N	12/2/2022	0	AZK
5	0.23	A2G8C91	A2H8B9	B	1	11/16/2022	11/17/2022	N	12/2/2022	0	AZK
5	0.23	A2G8C91	A2H8C9	B	1	11/16/2022	11/17/2022	Y	12/2/2022	0	AZK
5	0.23	A2G8C91	A2H8D9	B	1	11/16/2022	11/17/2022	N	12/2/2022	0	AZK
5	0.11	A2G8C91	A2H8E9	B	1	11/16/2022	11/17/2022	N	12/2/2022	0	AZK
5	0.06	A2G8F51	A2G8F5	B	1	11/20/2022	11/28/2022	N	12/2/2022	0	AZK
5	0.22	A2G8F51	A2G8G5	B	1	11/20/2022	11/28/2022	N	12/2/2022	0	AZK
5	0.23	A2G8F51	A2G8H5	B	1	11/20/2022	11/28/2022	N	12/2/2022	0	AZK
5	0.23	A2G8F51	A2G8I5	B	1	11/20/2022	11/28/2022	Y	12/2/2022	0	AZK
5	0.23	A2G8F51	A2G8J5	B	1	11/20/2022	11/28/2022	N	12/2/2022	0	AZK
5	0.23	A2G8F51	A2H8A5	B	1	11/20/2022	11/28/2022	N	12/2/2022	0	AZK
5	0.23	A2G8F51	A2H8B5	B	1	11/20/2022	11/28/2022	N	12/2/2022	0	AZK
5	0.23	A2G8F51	A2H8C5	B	1	11/20/2022	11/28/2022	N	12/2/2022	0	AZK
5	0.23	A2G8F51	A2H8D5	B	1	11/20/2022	11/28/2022	N	12/2/2022	0	AZK
5	0.23	A2G8F51	A2H8E5	B	1	11/20/2022	11/28/2022	N	12/2/2022	0	AZK
5	0.22	A2G8F51	A2H8F5	B	1	11/20/2022	11/28/2022	N	12/2/2022	0	AZK
5	0.02	A2G8F51	A2H8G5	B	1	11/20/2022	11/28/2022	N	12/2/2022	0	AZK
5	0.09	A2G8G41	A2G8G4	B	1	11/21/2022	11/29/2022	N	12/2/2022	0	AZK
5	0.23	A2G8G41	A2G8H4	B	1	11/21/2022	11/29/2022	N	12/2/2022	0	AZK
5	0.23	A2G8G41	A2G8I4	B	1	11/21/2022	11/29/2022	N	12/2/2022	0	AZK
5	0.23	A2G8G41	A2G8J4	B	1	11/21/2022	11/29/2022	N	12/2/2022	0	AZK
5	0.23	A2G8G41	A2H8A4	B	1	11/21/2022	11/29/2022	N	12/2/2022	0	AZK
5	0.23	A2G8G41	A2H8B4	B	1	11/21/2022	11/29/2022	N	12/2/2022	0	AZK
5	0.23	A2G8G41	A2H8C4	B	1	11/21/2022	11/29/2022	N	12/2/2022	0	AZK
5	0.23	A2G8G41	A2H8D4	B	1	11/21/2022	11/29/2022	Y	12/2/2022	0	AZK
5	0.23	A2G8G41	A2H8E4	B	1	11/21/2022	11/29/2022	N	12/2/2022	0	AZK
5	0.23	A2G8G41	A2H8F4	B	1	11/21/2022	11/29/2022	N	12/2/2022	0	AZK
5	0.08	A2G8G41	A2H8G4	B	1	11/21/2022	11/29/2022	N	12/2/2022	0	AZK
5	0.01	A2G8G31	A2G8G3	B	1	11/21/2022	11/30/2022	N	12/2/2022	0	AZK
5	0.22	A2G8G31	A2G8H3	B	1	11/21/2022	11/30/2022	N	12/2/2022	0	AZK
5	0.23	A2G8G31	A2G8I3	B	1	11/21/2022	11/30/2022	N	12/2/2022	0	AZK
5	0.23	A2G8G31	A2G8J3	B	1	11/21/2022	11/30/2022	N	12/2/2022	0	AZK
5	0.23	A2G8G31	A2H8A3	B	1	11/21/2022	11/30/2022	Y	12/2/2022	0	AZK
5	0.23	A2G8G31	A2H8B3	B	1	11/21/2022	11/30/2022	N	12/2/2022	0	AZK
5	0.23	A2G8G31	A2H8C3	B	1	11/21/2022	11/30/2022	N	12/2/2022	0	AZK
5	0.23	A2G8G31	A2H8D3	B	1	11/21/2022	11/30/2022	N	12/2/2022	0	AZK
5	0.23	A2G8G31	A2H8E3	B	1	11/21/2022	11/30/2022	N	12/2/2022	0	AZK
5	0.23	A2G8G31	A2H8F3	B	1	11/21/2022	11/30/2022	Y	12/2/2022	0	AZK
5	0.08	A2G8G31	A2H8G3	B	1	11/21/2022	11/30/2022	N	12/2/2022	0	AZK
5	0.08	A2G8H21	A2G8H2	B	1	11/22/2022	12/1/2022	N	12/2/2022	0	AZK
5	0.08	A2G8H21	A2G8I2	B	1	11/22/2022	12/1/2022	N	12/2/2022	0	AZK
5	0.07	A2G8H21	A2G8J2	B	1	11/22/2022	12/1/2022	N	12/2/2022	0	AZK
5	0.05	A2G8H21	A2H8A2	B	1	11/22/2022	12/1/2022	N	12/2/2022	0	AZK
5	0.04	A2G8H21	A2H8B2	B	1	11/22/2022	12/1/2022	N	12/2/2022	0	AZK
5	0.04	A2G8H21	A2H8C2	B	1	11/22/2022	12/1/2022	N	12/2/2022	0	AZK
5	0.04	A2G8H21	A2H8D2	B	1	11/22/2022	12/1/2022	N	12/2/2022	0	AZK
5	0.05	A2G8H21	A2H8E2	B	1	11/22/2022	12/1/2022	N	12/2/2022	0	AZK
5	0.14	A2G8H21	A2H8F2	B	1	11/22/2022	12/1/2022	Y	12/2/2022	0	AZK
5	0.00	A2G8H21	A2H8G1	B	1	11/22/2022	12/1/2022	N	12/2/2022	0	AZK
5	0.12	A2G8H21	A2H8G2	B	1	11/22/2022	12/1/2022	N	12/2/2022	0	AZK

Appendix B

DGM Blind Seed Detection Tracking

Appendix B

Blind Seed Detection Tracking

Unit 5 Remedial Action Technical Memorandum

				Channel 2					Channel Sum												
				0 Offset		1 ft Offset			0 Offset		1 ft Offset										
Seed ID	Grid	Depth	Depth	Max	75%	Max	75%	Reported Response	Max	75%	Max	75%	Reported Response	Response Passes?	Known X	Known Y	Reported X	Reported Y	X Offset (ft)	Y Offset (ft)	Total Offset (ft)	Total Offset (in)	Positioning Passes?
5003G	A3F2I5	6 inches	15.24 cm	88.71	66.53	40.28	30.21	74.29	293.01	219.76	130.00	97.51	238.68	Yes	5746916.59	2107859.39	5746916.40	2107859.02	0.19	0.37	0.42	4.99	Yes
5001G	A3F2H8	6 inches	15.24 cm	88.71	66.53	40.28	30.21	67.66	293.01	219.76	130.00	97.51	220.47	Yes	5747229.13	2107749.98	5747228.74	2107750.31	0.39	-0.33	0.51	6.15	Yes
5002G	A3F2G6	6 inches	15.24 cm	88.71	66.53	40.28	30.21	61.37	293.01	219.76	130.00	97.51	193.71	Yes	5747064.56	2107689.11	5747064.28	2107688.93	0.28	0.17	0.33	3.98	Yes
5004G	A3F2H3	6 inches	15.24 cm	88.71	66.53	40.28	30.21	59.15	293.01	219.76	130.00	97.51	194.73	Yes	5746733.21	2107739.02	5746732.54	2107739.00	0.67	0.02	0.67	7.98	Yes
5006G	A3G2A4	6 inches	15.24 cm	88.71	66.53	40.28	30.21	83.42	293.01	219.76	130.00	97.51	267.26	Yes	5746830.16	2108049.12	5746830.86	2108048.92	-0.71	0.20	0.73	8.79	Yes
5007G	A3G2C2	6 inches	15.24 cm	88.71	66.53	40.28	30.21	82.31	293.01	219.76	130.00	97.51	268.54	Yes	5746640.68	2108235.52	5746641.08	2108235.18	-0.40	0.34	0.52	6.25	Yes
5010G	A3G1I6	6 inches	15.24 cm	88.71	66.53	40.28	30.21	72.02	293.01	219.76	130.00	97.51	236.46	Yes	5746058.31	2108839.57	5746058.46	2108838.73	-0.15	0.84	0.86	10.28	Yes
5021G	A3G1C4	6 inches	15.24 cm	88.71	66.53	40.28	30.21	64.04	293.01	219.76	130.00	97.51	209.69	Yes	5745844.77	2108250.80	5745844.54	2108251.09	0.22	-0.29	0.37	4.40	Yes
5019G	A3G1H3	6 inches	15.24 cm	88.71	66.53	40.28	30.21	54.53	293.01	219.76	130.00	97.51	176.00	Yes	5745739.14	2108719.36	5745738.33	2108718.55	0.81	0.81	1.14	13.70	Yes
5009G	A3G2H1	6 inches	15.24 cm	88.71	66.53	40.28	30.21	85.26	293.01	219.76	130.00	97.51	277.53	Yes	5746532.27	2108747.86	5746532.10	2108747.76	0.17	0.10	0.20	2.36	Yes
5028G	A2G0G0	6 inches	15.24 cm	88.71	66.53	40.28	30.21	86.61	293.01	219.76	130.00	97.51	283.42	Yes	5745474.64	2108641.58	5745474.28	2108641.47	0.36	0.11	0.37	4.46	Yes
5011G	A3G1G8	6 inches	15.24 cm	88.71	66.53	40.28	30.21	68.95	293.01	219.76	130.00	97.51	225.05	Yes	5746265.78	2108633.18	5746265.70	2108634.02	0.08	-0.84	0.85	10.15	Yes
5012G	A3G1F5	6 inches	15.24 cm	88.71	66.53	40.28	30.21	38.65	293.01	219.76	130.00	97.51	129.22	Yes	5745965.07	2108564.67	5745964.71	2108565.94	0.36	-1.27	1.32	15.82	Yes
5020G	A3G1E2	6 inches	15.24 cm	88.71	66.53	40.28	30.21	102.7	293.01	219.76	130.00	97.51	332.83	Yes	5745643.79	2108457.22	5745643.06	2108457.15	0.73	0.07	0.73	8.81	Yes
5008G	A3G1E0	6 inches	15.24 cm	88.71	66.53	40.28	30.21	64.73	293.01	219.76	130.00	97.51	211.05	Yes	5746440.95	2108445.74	5746440.81	2108444.61	0.14	1.13	1.14	13.71	Yes
5013G	A3G1D7	6 inches	15.24 cm	88.71	66.53	40.28	30.21	83.74	293.01	219.76	130.00	97.51	273.62	Yes	5746138.57	2108321.46	5746138.34	2108321.75	0.23	-0.29	0.38	4.51	Yes
5022G	A3G1B2	6 inches	15.24 cm	88.71	66.53	40.28	30.21	54.04	293.01	219.76	130.00	97.51	177.58	Yes	5745648.34	2108126.03	5745648.04	2108124.84	0.30	1.19	1.23	14.75	Yes
5014G	A3G1B9	6 inches	15.24 cm	88.71	66.53	40.28	30.21	61.76	293.01	219.76	130.00	97.51	201.29	Yes	5746347.33	2108144.37	5746347.41	2108144.62	-0.08	-0.25	0.26	3.11	Yes
5023G	A3F1J4	6 inches	15.24 cm	88.71	66.53	40.28	30.21	74.48	293.01	219.76	130.00	97.51	241.58	Yes	5745831.62	2107940.88	5745831.36	2107940.82	0.26	0.06	0.26	3.15	Yes
5005G	A3F2J1	6 inches	15.24 cm	88.71	66.53	40.28	30.21	108.49	293.01	219.76	130.00	97.51	353.84	Yes	5746574.06	2107912.75	5746573.95	2107912.39	0.11	0.36	0.37	4.50	Yes
5015G	A3G1A6	6 inches	15.24 cm	88.71	66.53	40.28	30.21	107.83	293.01	219.76	130.00	97.51	351.24	Yes	5746063.87	2108039.30	5746063.38	2108038.56	0.49	0.74	0.89	10.68	Yes
5024G	A3F1I1	6 inches	15.24 cm	88.71	66.53	40.28	30.21	55.30	293.01	219.76	130.00	97.51	179.96	Yes	5745558.74	2107830.06	5745559.31	2107829.26	-0.57	0.80	0.98	11.80	Yes
5016G	A3F1I8	6 inches	15.24 cm	88.71	66.53	40.28	30.21	67.19	293.01	219.76	130.00	97.51	217.00	Yes	5746244.48	2107867.07	5746244.55	2107867.74	-0.07	-0.67	0.67	8.08	Yes
5030G	A2H0C8	6 inches	15.24 cm	88.71	66.53	40.28	30.21	60.67	293.01	219.76	130.00	97.51	197.74	Yes	5745237.82	2109228.93	5745237.67	2109229.54	0.15	-0.61	0.63	7.54	Yes
5029G	A2H0B9	6 inches	15.24 cm	88.71	66.53	40.28	30.21	94.19	293.01	219.76	130.00	97.51	306.33	Yes	5745369.74	2109135.86	5745370.20	2109135.71	-0.46	0.15	0.49	5.83	Yes
5017G	A3H1B2	6 inches	15.24 cm	88.71	66.53	40.28	30.21	77.37	293.01	219.76	130.00	97.51	253.99	Yes	5745686.23	2109137.19	5745686.00	2109137.92	0.23	-0.73	0.77	9.24	Yes
5041G	A2H0A2	6 inches	15.24 cm	88.71	66.53	40.28	30.21	66.23	293.01	219.76	130.00	97.51	215.09	Yes	5744645.80	2109044.08	5744645.97	2109043.73	-0.17	0.35	0.39	4.67	Yes
5018G	A3G1J1	6 inches	15.24 cm	88.71	66.53	40.28	30.21	79.18	293.01	219.76	130.00	97.51	258.99	Yes	5745534.98	2108973.53	5745534.20	2108972.75	0.78	0.78	1.10	13.22	Yes
5026G	A2G0A9	6 inches	15.24 cm	88.71	66.53	40.28	30.21	85.24	293.01	219.76	130.00	97.51	278.85	Yes	5745315.85	2108046.52	5745315.14	2108046.59	0.71	-0.07	0.72	8.60	Yes
5025G	A2F0H8	6 inches	15.24 cm	88.71	66.53	40.28	30.21	89.83	293.01	219.76	130.00	97.51	294.94	Yes	5745227.34	2107732.26	5745227.20	2107732.32	0.14	-0.06	0.15	1.82	Yes
5027G	A2G0C7	6 inches	15.24 cm	88.71	66.53	40.28	30.21	63.89	293.01	219.76	130.00	97.51	210.68	Yes	5745147.78	2108258.07	5745147.22	2108258.01	0.56	0.06	0.56	6.75	Yes
5034G	A2F0I6	6 inches	15.24 cm	88.71	66.53	40.28	30.21	61.66	293.01	219.76	130.00	97.51	200.85	Yes	5745041.72	2107849.50	5745041.73	2107849.63	-0.01	-0.13	0.14	1.62	Yes
5031G	A2G0H6	6 inches	15.24 cm	88.71	66.53	40.28	30.21	57.79	293.01	219.76	130.00	97.51	187.01	Yes	5745050.12	2108762.66	5745050.57	2108762.56	-0.46	0.10	0.47	5.59	Yes
5032G	A2G0E5	6 inches	15.24 cm	88.71	66.53	40.28	30.21	75.42	293.01	219.76	130.00	97.51	246.35	Yes	5744951.33	2108456.40	5744951.56	2108456.73	-0.23	-0.33	0.41	4.87	Yes
5040G	A2G0J4	6 inches	15.24 cm	88.71	66.53	40.28	30.21	79.17	293.01	219.76	130.00	97.51	258.47	Yes	5744828.48	2108919.04	5744829.14	2108919.42	-0.66	-0.38	0.76	9.16	Yes
5033G	A2G0B4	6 inches	15.24 cm	88.71	66.53	40.28	30.21	76.39	293.01	219.76	130.00	97.51	247.48	Yes	5744835.12	2108159.80	5744835.79	2108159.63	-0.67	0.17	0.69	8.32	Yes
5038G	A2G0G3	6 inches	15.24 cm	88.71	66.53	40.28	30.21	70.05	293.01	219.76	130.00	97.51	229.26	Yes	5744735.42	2108627.02	5744735.71	2108627.47	-0.29	-0.45	0.53	6.40	Yes
5036G	A2G0D2	6 inches	15.24 cm	88.71	66.53	40.28	30.21	75.55	293.01	219.76	130.00	97.51	245.82	Yes	5744613.15	2108334.78	5744612.68	2108334.63	0.47	0.15	0.49	5.93	Yes
5062G	A2F9J0	6 inches	15.24 cm	88.71	66.53	40.28	30.21	92.05	293.01	219.76	130.00	97.51	297.94	Yes	5744457.37	2107955.61	5744457.93	2107956.01	-0.56	-0.40	0.69	8.24	Yes
5037G	A2G9F0	6 inches	15.24 cm	88.71	66.53	40.28	30.21	50.82	293.01	219.76	130.00	97.51	167.13	Yes	5744476.83	2108544.54	5744477.73	2108544.09	-0.91	0.45	1.01	12.13	Yes
5039G	A2G0I1	6 inches	15.24 cm	88.71	66.53	40.28	30.21	63.40	293.01	219.76	130.00	97.51	205.75	Yes	5744514.52	2108811.67	5744515.47	2108811.60	-0.95	0.07	0.95	11.38	Yes
5035G	A2G0A1	6 inches	15.24 cm	88.71	66.53	40.28	30.21	73.08	293.01	219.76	130.00	97.51	237.50	Yes	5744584.29	2108056.01	5744584.88	2108056.73	-0.59	-0.72	0.93	11.15	Yes
5061G	A2G9C9	6 inches	15.24 cm	88.71	66.53	40.28	30.21	55.03	293.01	219.76	130.00	97.51	178.47	Yes	5744344.78	2108261.46	5744345.57	2108261.80	-0.79	-0.34	0.87	10.40	Yes
5059G	A2G9H8	6 inches	15.24 cm	88.71	66.53	40.28	30.21	66.34	293.01	219.76	130.00	97.51	216.36	Yes	5744233.92	2108736.88	5744234.01	2108736.72	-0.09	0.16	0.19	2.27	Yes
5060G	A2G9E7	6 inches	15.24 cm	88.71	66.53	40.28	30.21	70.99	293.01	219.76	130.00	97.51	231.87	Yes	5744119.78	2108450.74	5744120.64	2108451.03	-0.86	-0.29	0.91	10.90	Yes
5058G	A2G9J6	6 inches	15.24 cm	88.71	66.53	40.28	30.21	72.99	293.01	219.76	130.00	97.51	236.09	Yes	5744044.94	2108948.63	5744044.46	2108948.44	0.48	0.19	0.52	6.21	Yes
5063G	A2G9B6	6 inches	15.24 cm	88.71	66.53	40.28	30.21	74.14	293.01	219.76	130.00	97.51	240.67	Yes	5744060.31	2108154.98	5744060.58	2108155.49	-0.27	-0.51	0.58	6.98	Yes
5065G	A2G9G5	6 inches	15.24 cm	88.71	66.53	40.28	30.21	85.91	293.01	219.76	130.00	97.51	284.28	Yes	5743933.98	2108645.28	5743933.43	2108645.17	0.54	0.11	0.56	6.68	Yes
5057G	A2H9B4	6 inches	15.24 cm	88.71	66.53	40.28	30.21	74.99	293.01	219.76	130.00	97.51	238.47	Yes	5743856.42	2109137.52	5743856.15	2109137.40	0.26	0.12	0.29	3.49	Yes
5064G	A2G9D4	6 inches	15.24 cm	88.71	66.53	40.28	30.21	107.3	293.01	219.76	130.00	97.51	352.75	Yes	5743837.03	2108350.18	5743837.79	2108350.12	-0.76	0.06	0.76	9.11	Yes
5054G	A2G9I3	6 inches	15.24 cm	88.71	66.53	40.28	30.21	82.05	293.01	219.76	130.00	97.51	265.54	Yes	5743770.33	2108832.03	5743770.59	2108832.11	-0.26	-0.08	0.27	3.27	Yes
5052G	A2G9F2	6 inches	15.24 cm	88.71	66.53	40.28	30.21	174.52	293.01	219.76	130.00	97.51	561.50	Yes	5743648.72	2108541.67	5743648.13	2108542.43	0.59	-0.76	0.96	11.54	Yes
5051G	A2G9C1	6 inches	15.24 cm	88.71	66.53	40.28	30.21	60.84	293.01	219.76	130.00	97.51	195.07	Yes	5743529.14	2108273.91	5743528.57	2108273.85	0.57	0.06	0.57	6.86	Yes
5056G	A2H9A1	6 inches	15.24 cm	88.71	66.53	40.28	30.21	87.56	293.01	219.76	130.00	97.51	283.29	Yes	5743528.14	2109058.70	5743528.99	2109058.72	-0.86	-0.02	0.86	10.26	Yes
5053G	A2G8H0	6 inches	15.24 cm	88.71	66.53	40.28	30.21	69.16	293.01	219.76	130.00	97.51	224.43	Yes	5743454.66	2108771.10	5743455.13	2108771.44	-0.47	-0.34	0.58	6.98	Yes
5050G	A2G8E9	6 inches	15.24 cm	88.71	66.53	40.28	30.21	59.74	293.01	219.76	130.00	97.51	195.38	Yes	5743322.52	2108458.53	5743321.49	2108459.23	1.03	-0.70	1.25	14.98	Yes
5042G	A2H8C9	6 inches	15.24 cm	88.71	66.53	40.28	30.21	65.98	293.01	219.76	130.00	97.51	216.92	Yes	5743337.91	2109254.06	5743336.50	2109253.79	1.41	0.27	1.43	17.20	Yes
5055G	A2G8J8	6 inches	15.24 cm	88.71	66.53	40.28	30.21	79.61	293.01	219.76	130.00	97.51	260.14	Yes	5743262.31	2108958.06	5743261.76	2108958.04	0.55	0.02	0.55	6.60	Yes
5049G	A2G8G7	6 inches	15.24 cm	88.71	66.53	40.28	30.21	87.08	293.01	219.76	130.00	97.51	288.37	Yes	5743148.20	2108639.26	5743148.33	2108640.37	-0.13	-1.12	1.12	13.47	Yes
5043G	A2H8E7	6 inches	15.24 cm	88.71	66.53	40.28	30.21	97.14	293.01	219.76	130.00	97.51	316.15	Yes	5743137.82	2109419.93	5743137.79	2109419.45	0.03	0.48	0.48	5.76	Yes
5046G	A2H8B6	6 inches	15.24 cm	88.71	66.53	40.28	30.21	73.65	293.01	219.76	130.00	97.51	239.47	Yes	5743027.23	2109143.26	5743026.61	2109143.81	0.62	-0.55	0.83	9.91	Yes
5048G	A2G8I5	6 inches	15.24 cm	88.71	66.53	40.28	30.21	71.90	293.01	219.76	130.00	97.51	237.62	Yes	5742947.07	2108848.30	5742946.12	2108848.89	0.95	-0.59	1.12	13.41	Yes
5045G	A2H8D4	6 inches	15.24 cm	88.71	66.53	40.28	30.21	80.42	293.01	219.76	130.00	97.51	262.20	Yes	5742819.04	2109333.88	5742819.79	2109333.67	-0.75	0.21	0.78	9.39	Yes
5047G	A2H8A3	6 inches	15.24 cm	88.71	66.53	40.28	30.21	68.75	293.01	219.76	130.00	97.51	225.13	Yes	5742751.44	2109061.36	5742751.97	2109061.44	-0.54	-0.08	0.54	6.49	Yes
5044G	A2H8F3	6 inches	15.24 cm	88.71	66.53	40.28	30.21	65.04	293.01	219.76	130.00	97.51	212.99	Yes	5742758.74	2109522.85	5742758.43	2109523.25	0.31	-0.40	0.50	6.03	Yes

Appendix C

DGM QA Approval and Discussion

FORMER FORT ORD, CALIFORNIA
UNIT 5
QUALITY ASSURANCE REPORT:
DIGITAL GEOPHYSICAL OPERATIONS

PREPARED BY
GEOLOGY SECTION
SACRAMENTO DISTRICT
U.S. ARMY CORPS OF ENGINEERS

PREPARED FOR
FORT ORD BASE REALIGNMENT AND CLOSURE (BRAC) OFFICE

JANUARY 2023

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1.0 INTRODUCTION

This report covers the Quality Assurance (QA) processes conducted by the United States Army Corps of Engineers (USACE) with respect to the collection, processing, and evaluation of digital geophysical data collected by KEMRON Environmental Services, Inc (KEMRON). The field work was performed within Munitions Response Site (MRS) – Bureau of Land Management (BLM) Unit 5. Work was performed under Contract W9123820D0004 Task Order W1923821F007, Addendum to Final Work Plan, MRS-BLM Units 1-5 (Unit 5 SSWP; KEMRON, 2022). The field protocols, database management, and QA review were based on a combination of methods previously used in other units and described in the Uniform Federal Policy for Quality Assurance Project Plans (UFP-QAPP) Volume II Appendix A (KEMRON, 2016), along with additional procedures necessary for ensuring compliance with the Military Munitions Response Program (MMRP) contract and the standard operating procedures (SOPs) performed by KEMRON's subcontractors AECOM and NAEVA Geophysics. USACE QA verified that KEMRON had an adequate Quality Control (QC) program in place and that data collected in Unit 5 were in accordance with project Data Quality Objectives (DQOs) and Measurement Quality Objectives (MQOs), as established in the UFP-QAPP (KEMRON, 2016). Digital geophysical mapping (DGM) data in Unit 5 were collected in their entirety to meet Category B data.

1.1 Site details

Unit 5 is located in the southeastern portion of the Impact Area Munitions Response Area (MRA), as depicted in Figure 1. Vernal ponds 21 and 76 are located in the north-central and southeast areas of Unit 5, respectively. Unit 5 encompasses a total of approximately 130 acres. Due to the presence of large trees and steep terrain in Unit 5, approximately 3.22 acres were inaccessible to DGM operations due to the presence of single trees and steep slopes.

Clean-up operations pertinent to DGM activities were initiated with a vegetation clearance followed by technology-aided surface removal. During vegetation clearance and surface removal activities, a total of 23 MEC items were removed (1 during vegetation clearance and 22 during surface removal).

According to the Installation-Wide Multispecies Habitat Management Plan (HMP) for Fort Ord (USACE 1997), the site will be used as an undeveloped habitat reserve. The Impact Area MRA is mostly covered by maritime chaparral and grassland habitats. The terrain in the Impact Area is dominated by rolling hills with elevations ranging from 720-900 ft. above sea level (ASL). These hills are composed of sand associated with Pleistocene aged sand dunes that may be as thick as 250 ft.

2.0 QA ACTIVITES

2.1 Data Collection Methods

Production geophysical data were collected using Geonics EM-61MKII electromagnetic sensors in a multi-coil configuration (towed array) throughout most of the site. The EM-

61MKII is a time-domain electromagnetic sensor that generates an electromagnetic pulse, inducing eddy currents within the subsurface. During the off period of the EM pulse, the eddy current decay produces secondary electromagnetic fields within both ferrous and non-ferrous metallic objects. These secondary electromagnetic fields are received and recorded over four averaged time gates per data collection interval (10Hz).

Data were collected either as individual grids or in grid blocks of variable size consisting of multiple grids. All data collected met Category B line spacing requirements, with 95% not to exceed a lane spacing of 2 ft. and 98% not to exceed a lane spacing of 3 ft. Category B line spacing requirements were sufficient to meet project objectives as no subsurface MEC removal actions were planned for Unit 5 with the exception of Pond 21 as described in the Unit 5 SSWP (KEMRON, 2022). Based on the habitat requirements to burn Unit 5, future risk-reduction work may be required to remove 155mm projectiles and 8-inch projectiles to one and two foot depths in Unit 5. As stated in UFP-QAPP Volume II Appendix A (KEMRON, 2016), the purpose and objective for the Category A line spacing requirements is to obtain high quality DGM data in order to pick targets for subsurface removal (i.e., to detect all 37mm projectiles to 16-inch depth). Given the large minimum predicted response of the items of interest (114 mV – 446 mV on Channel 3) compared with the project detection threshold (14 mV on summed Channels 1-4) designed to detect all 37mm projectiles to 16-inch depth, Category B spacing requirements are sufficient to pick targets for the potential risk-reduction work.

A total of 123.7 acres of Unit 5 were surveyed with DGM. Obstacles and issues with terrain precluded 100% coverage and approximately 3.22 acres of Unit 5 were either inaccessible due to the presence of large trees or determined by UXO Safety to be inaccessible to DGM survey due to steep terrain. All data gaps were appropriately documented in the obstacle files submitted with DGM packages. Figure 2 of this QA report depicts the full DGM dataset for Unit 5. It should be noted that the large, contiguous areas where no DGM data are present include sensitive habitats related to Ponds 21 and 76, HA-29, and a portion in the southwest of the unit where a previous remedial action was completed. DGM surveys were not planned for these areas in the Unit 5 SSWP and do not constitute data gaps.

Pond 21 was identified for subsurface removal in Unit 5. A DGM survey in Pond 21 was conducted by the USACE in November 2020 and described in *DGM Survey in Vernal Pond 21 at Former Fort Ord, California* (USACE, 2021). DGM survey in Pond 76 is planned to be conducted by the USACE when conditions allow.

2.2 Field Oversight

Field oversight was performed intermittently throughout the project by both the USACE Project Geophysicist and the Ordnance and Explosive Safety Specialist (OESS). Appropriate field procedures were reviewed and found to be in compliance. Under Task Order W9123821F007, NAEVA Geophysics is subcontracted to collect the geophysical data.

2.3 Geophysical System Verification

USACE and KEMRON fully incorporated the physics based Geophysical System Verification (GSV) approach as described in the July 2009 ESTCP report (ESTCP, 2009) and supported by EM 200-1-15. GSV includes two methods for providing QA/QC: blind seeding and the instrument verification strip (IVS). IVS data results were recorded on daily QC submittals attached as PDF files to the grid blocks. Data were reviewed by the QA Geophysicist to ensure all MQOs were achieved. The QA data review process is described in section 2.4 and a summary of MQOs for towed array DGM operations is given in Table 1. Daily IVS results for Unit 5 are shown in Figures 3 & 4. Further details regarding MQOs are provided in the UFP-QAPP (KEMRON, 2016).

Production data required the GSV blind seeds placed throughout Unit 5, as documented in the UFP-QAPP. By placing blind seeds at an average rate of one per day, the instrument functionality can be tested on a daily basis. Any failures to detect a blind seed could be indicative of an issue with instrumentation and/or data collection. All blind QC seeds were small industry standard objects buried to a depth of six inches to center of mass below ground surface and oriented vertically. The blind seeds were placed by the QC Geophysicist. All blind QC seeds were detected and both the responses and positioning were within the requirements of the MQOs and SOPs. Table 2 summarizes the QC seed results for Unit 5.

2.4 Digital Data Review

A review of digital geophysics data by the USACE was performed to monitor the effectiveness of data processing and consistency of data delivery. Issues that were reviewed in these data included:

1) Missing survey lines within a grid (interline gaps)
2) Point-to-point data gaps along survey lines
3) Bowing out of survey lines beyond 50% of survey line spacing, unless otherwise collected
4) Unreasonable data “spikes”
5) Data incongruity across survey grids (Data levels in one grid are not reasonably compatible with data levels in neighboring grids)
6) Inadequate data density along survey traverse
7) Lack of accurate, precise locations; survey line orientation
8) Inadequate/incomplete site survey coverage
9) Missing, incomplete, or noncompliant instrument standardization checks
10) Completeness of file header information and supporting documentation
11) Consistent IVS and GSV results supporting the data quality objectives

To accomplish this, all raw and processed data files were checked by the USACE to ensure that KEMRON followed an appropriate and informative naming convention reflecting the grids surveyed as outlined in the EM 200-1-15. The USACE checked that KEMRON managed the field and processed data in a professional manner, including organization, daily maintenance, and complete documentation. This focused on a review of header files on the

pre-processed data (data that has been merged into a single file and synchronized with the GPS data) and processed data to verify that dates were consistent, systems and system sampling parameters were identified, project name and contractor was listed, and all column headers were included and defined. KEMRON also delivered supporting summary sheets that further documented field parameters and processing. All of the summary sheets were reviewed for completeness, verification of calibration data, and consistency to the electronic data file headers.

In order to make the above process more efficient, a grid tracking spreadsheet located in the Unit 5 folder on the FTP site was updated weekly and allowed for the QC Geophysicist and USACE QA Geophysicist to document their verification of each deliverable. Minor issues such as corrupt or incomplete zip files were addressed within the table, major issues were addressed as corrective action requests. The final excel file will be maintained within the Final Data Submittal QC folder on the Fort Ord server.

The procedure for reprocessing and projecting the pseudo-color maps of the DGM Category B data included starting with a 100% review of the data in Geosoft Oasis Montaj to include re-leveling and re-gridding. These digital data were imported into Geosoft for the generation of pseudo-color maps that were then exported as a georeferenced geotif.

Overall, the general QA digital data review consisted at a minimum of:

1) Creating a processed database
2) Importing XYZ data
3) Calculation of sum channel
4) Generating a grid (0.25 ft. cell size and blanking distance of 2 ft.) of sum channel
5) Plotting the sum channel
6) Plotting a symbol cover for the track lines (view coverage)
7) Exporting the plots to geotifs
8) Importing the geotifs into a GIS

2.5 Corrective Action Request

Minor MQO failures (e.g., a single channel fails dynamic repeatability IVS tolerance, a single channel fails IVS background noise tolerance, etc.) were documented in processing reports, reviewed by the QC and QA Geophysicists, and determined to have no impact on production data. No corrective action requests were issued for data collected in Unit 5.

3.0 CONCLUSIONS

QA activities by the Government verified KEMRON had an adequate QC program in place and that data collected within Unit 5 are sufficient and in accordance with the project DQOs and MQOs. Furthermore, all data in Unit 5 meet Category B standards.

4.0 REFERENCES

ESTCP, 2009. *Geophysical System Verification (GSV): A Physics-Based Alternative to Geophysical Prove-Outs for Munitions Response.* July.

KEMRON, 2016. *Final, Quality Assurance Project Plan, Former Fort Ord, California, Volume II, Appendix A, Munitions and Explosives of Concern Remedial Action.* December. (OE-0884A)

KEMRON, 2022. *Final, Addendum to Final Work Plan, MRS-BLM Units 1-5, Munitions and Explosives of Concern Removal, Former Fort Ord, California, Unit 5.* April. (OE-0626U)

U.S. Army Corps of Engineers (USACE), 1997. *Installation-Wide Multispecies Habitat Management Plan for Former Fort Ord, California (HMP).* April. With technical assistance from Jones and Stokes, Sacramento, California. (BW-1787)

U.S. Army Corps of Engineers (USACE), 2021. *Final, DGM Survey in Vernal Pond 21 at Former Fort Ord, California.* March. (OE-1003)

5.0 FIGURES

Legend

- Unit 5 Boundary
- Fuel Breaks
- Impact Area Munitions Response Boundary

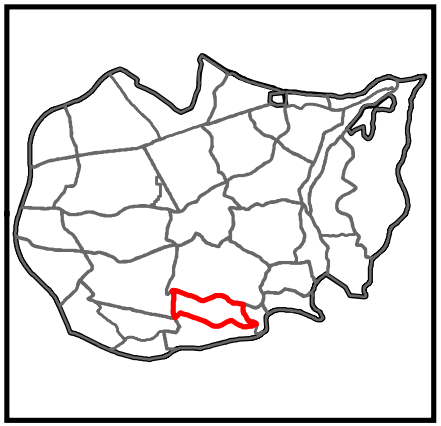
N

0 2,000 4,000 Feet

U.S. Army Corps of Engineers
Sacramento District

Figure 1

Unit 5
Former Fort Ord, CA



Legend

- Pond Boundaries
- DGM Gaps
- Unit 5 Boundary
- Impact Area Munitions Response Boundary

95.0
90.0
85.0
80.0
75.0
70.0
65.0
60.0
55.0
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
mV
Sum Channel

N

0 Feet 1,100

U.S. Army Corps of Engineers
Sacramento District

Figure 2

Unit 5
DGM Survey Results

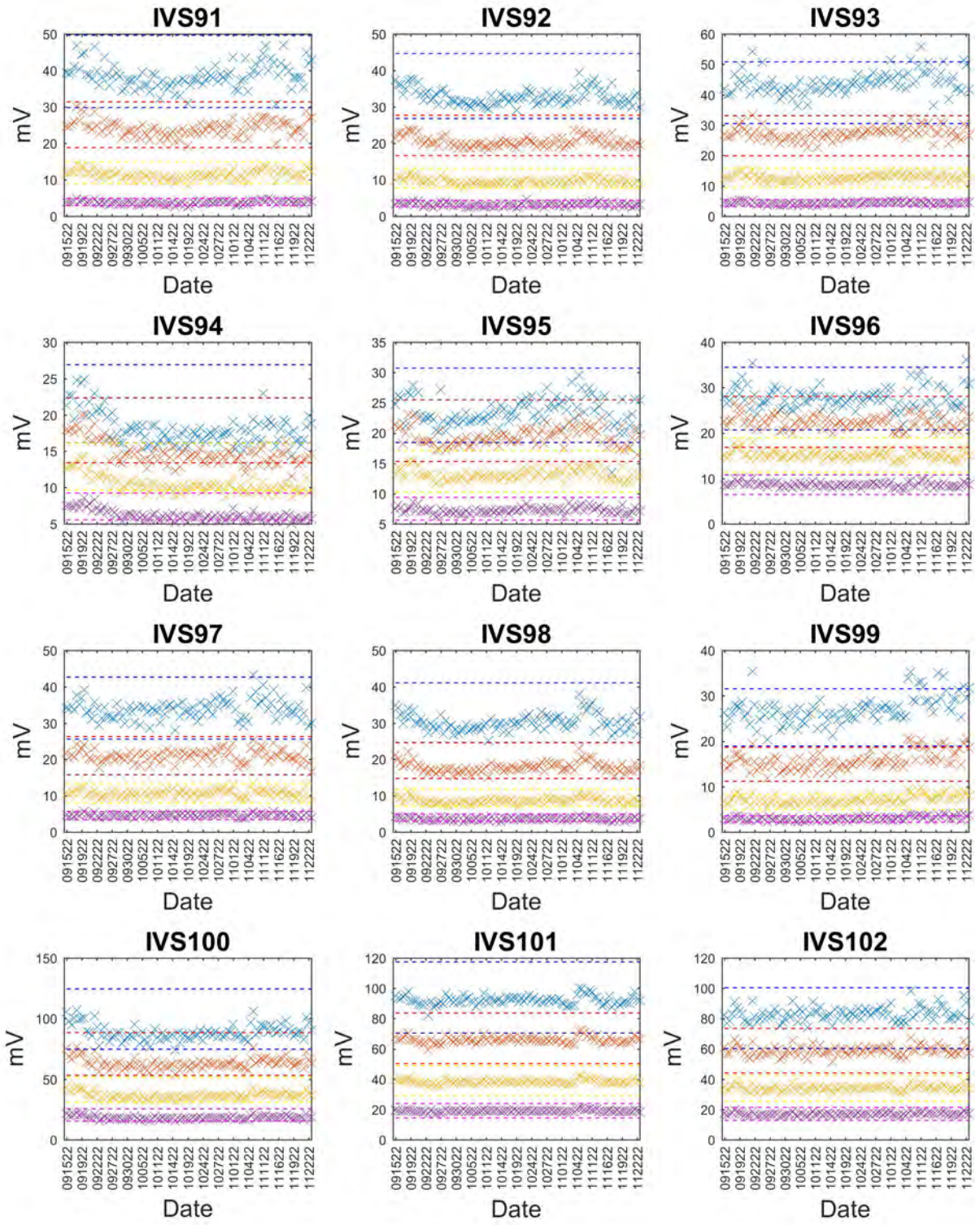


Figure 3. DGM response of IVS items for Unit 5 for each survey day. X symbols represent peak anomaly response for channel 1 (blue), channel 2 (red), channel 3 (yellow), and channel 4 (purple) for each IVS item. Dashed lines represent the allowable variability (+/- 25% of predicted response) established in WS #22.

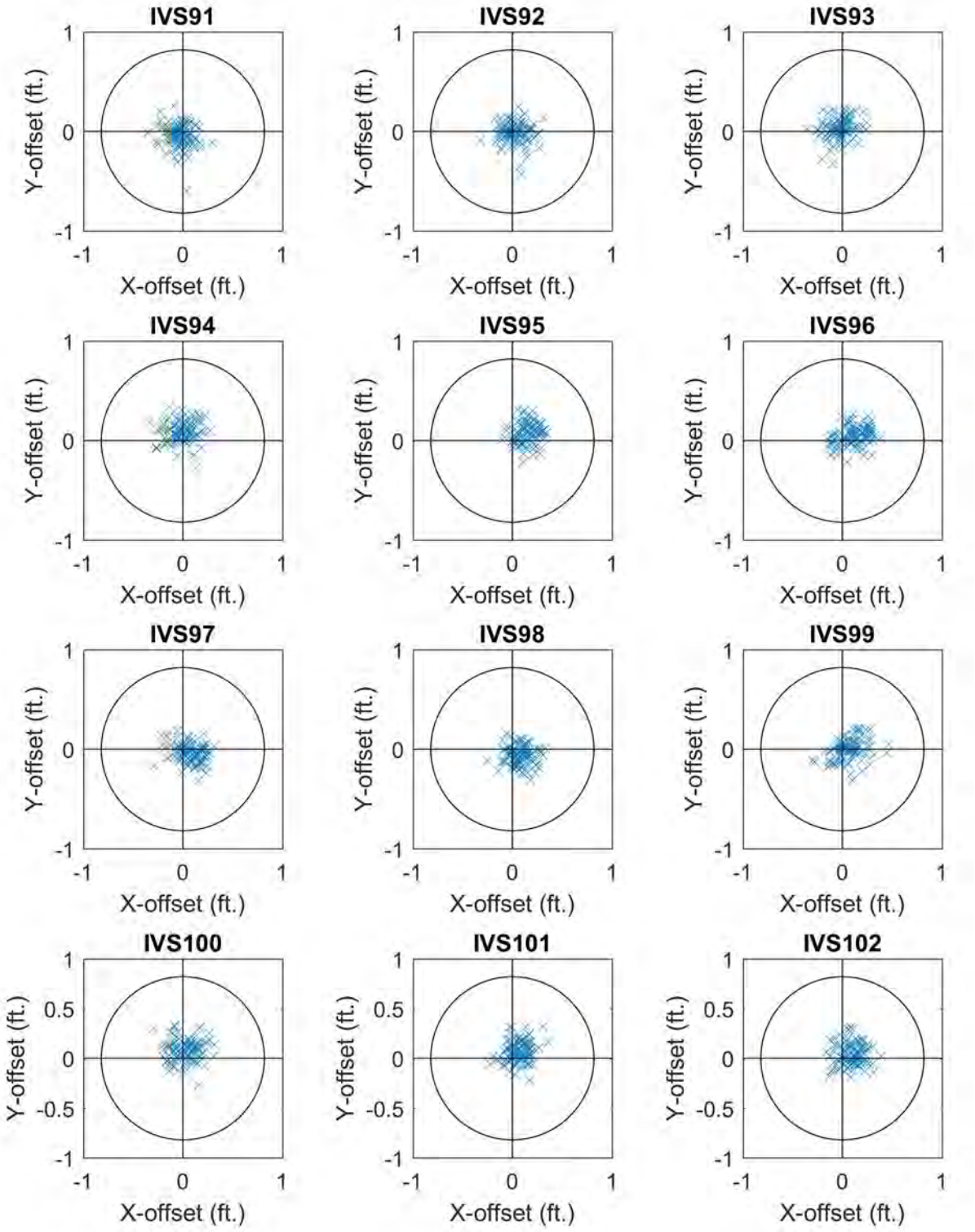


Figure 4. Daily IVS positioning results for Unit 5. Blue X's show the offset between picked DGM anomaly and the IVS ground truth. Black circle shows the maximum acceptable offset (0.82 ft.) established in WS #22.

6.0 TABLES

Data Type	Data Quality Indicator (DQI)	QC Sample and/or Activity to Assess Measurement Performance	Measurement Quality Objective (MQO)	Frequency	Consequence of Failure (a)
Cable Shake Test	Sensitivity	Instrument Response Tests at the IVS	Cable shake test: 98% of response values will not excseed +/- 2 mV when system cables are moved (for all EM61MK2 channels)	Once Daily (AM)	Do not proceed with DGM field activities until failure is resolved and cable shake test has passed.
Personnel Test	Sensitivity	Instrument Response Tests at the IVS	Personnel test (PP): 98% of response values (due to proximity of data collection personnel) will not exceed +/- 2 mV (for all EM61MK2 channels).	Once Daily (AM)	Do not proceed with DGM field activities until failure is resolved and personnel test has passed.
Tow Vehicle Test	Sensitivity	Instrument Response Tests at the IVS	Tow vehicle test (towed array): 98% of response values (due to elevated two vehicle RPM) will not exceed +/- 2 mV (for all EM61MK2 channels).	Once Daily (AM)	Do not proceed with DGM field activities until failure is resolved and tow vehicle test has passed.
Static repeatability (instrument functionality) (b)	Accuracy/Precision	Instrument Response Tests at the IVS	98% of the daily static background response values (no test object) will not exceed +/- 2 mV of expected baseline response (for all EM61MK2 channels). (d) 98% of the response values to the standard spike test item (a small ISO fixed at an orientation and distance from the sensor to provide an approximately 100 mV response on channel 2 of the EM61MK2) will not exceed +/- 10% of the expected baseline response (for all EM61MK2 channels). (d)	Twice Daily (AM/PM)	If failure occurs during the AM static test, do not proceed with DGM field activities until failure is resolved and AM static test(s) have passed. If failure occurs during PM static test, the day's data fails unless BSI is mapped that day with repeatable anomaly characteristics (see dynamic detection repeatability (GSV blind seeding)).

Along track sampling	Completeness	DGM Data Set or Grid	98% <= 0.65 ft. (20 cm)	By grid or dataset (c)	Submittal fails.
Coverage	Completeness	DGM using GPS Positioning: DGM Data Set or Grid	Category A (towed array): A lane spacing of 2 ft is to be used for the twoed array. 95% (or greater) of the lane spacing is to be at the project design lane spacing of 2 ft. 100% of the lane spacing is to be at 3 ft. No unexplained data gaps. Category B (towed array): A lane spacing of 2 ft is to be used for the towed array. 95% (or greater) of the lane spacing is to be at the project design lane spacing of 2 ft. 98% (or greater) of the lane spacing is to be at 3 ft.	By grid or dataset (c)	Data gaps must be filled in before submittal is accpted.
Dynamic detection repeatability (IVS)	Accuracy/Precision	Instrument Response Tests at the IVS	98% of the dynamic background response values during the daily IVS survey will not exceed +/- 3 mV of expected baseline response (for all EM61MK2 channels). (d) Instrument response to each IVS item will be within +/- 25% or +/- 2 mV(whichever is greater) of the expected baseline response (for all EM61MK2 channels). The baseline response for each IVS item will be the average of the instrument responses to that item measured during the first week of IVS surveys. (d)	Twice Daily (AM/PM)	If failure occurs during the AM IVS test, do not proceed with DGM field activities until failure is resolved and AM dynamic IVS test(s) have passed. If failure occurs during PM IVS test, the day's data fails unless BSI is mapped that day with repeatable anomaly characteristics (see Dynamic Detection Repeatability (GSV blind seeding)).
Dynamic detection repeatability (GSV blind seeding)	Sensitivity/Accuracy/Precision/Completeness	DGM Data Set or Grid	All BSIs must be located. Peak response >75% of maximum expected BSI response. (d)	1 per day per team (# per acre to be based on production rate)	Submittal fails.

Dynamic positioning repeatability (IVS)	Accuracy/Precision	Instrument Response Tests at the IVS	Position offset of IVS targets < 25 cm.	Twice Daily (AM/PM)	If failure occurs during the AM IVS test, do not proceed with DGM field activities until failure is resolved and AM dynamic IVS test(s) have passed. If failure occurs during PM IVS test, the day's data fails unless BSI is mapped that day with repeatable anomaly characteristics (see Dynamic Positioning Repeatability (GSV blind seeding)).
Dynamic positioning repeatability (GSV blind seeding)	Sensitivity/Accuracy/Precision/Completeness	DGM Data Set or Grid	90% positioning offset is <= 25 cm + 1/2 line/sensor spacing and 100% is <= 35 cm + 1/2 line/sensor spacing for digital positioning systems. For Towed Array DGM using 2 ft line spacing (Category A and Category B) and RTK-GPS: 90% <= 22 inches 100% <= 26 inches	1 per team per day (# per acre to be based on production rate - same as dynamic detection repeatability (GSV blind seeding)).	Submittal fails.
Velocity	Completeness	DGM Data Set or Grid	95% of all geophysical measurements with the EM61MK2 will be collected at a speed not to exceed 4 miles per hour (1.8 meters per second)	By grid or dataset (c)	Submittal fails.
Target Selection	Completeness	DGM Data Set or Grid	All dig list targets are selected according to project design as detailed in the SSWP	By grid or dataset (c)	Submittal fails.
Geodetic equipment functionality	Accuracy/Precision	GPS Function check at IVS	GPS position checks will not exceed +/- 3 inches (7.6 cm) from the established baseline position.	Once Daily (AM)	Do not proceed with DGM field activities until failure is resolved and positional check has passed.

Geodetic accuracy	Accuracy/Precision	GPS Function Check of Positional monuments used for RTK-GPS base station(s)	Project control points that are used more than once must be repeatable to within 5 cm (e).	For points used more than once, occupation will be repeated (f) for each point used, either monthly (for frequently used points) or before re-use (if used infrequently) (g).	Reset points not located at original locations or resurvey point.
Verify Field Work Methods	Accuracy/Precision	QC Geophysicist will monitor field team work methods.	Verify work methods are being performed in accordance with MEC QAPP, SOPs, and SSWP.	Daily	Stop work. Generate an RCA, CAR, and CAP (as necessary). Implement corrective actions.
DGM Data Reprocessing	Sensitivity/Accuracy/Precision/Completeness	10% of DGM Data Set or Grid	DGM data will be reprocessed by the QC Geophysicist in accordance with GEO SOP 8 (Geophysical QC).	Daily	Stop work. Generate an RCA, CAR, and CAP (as necessary). Implement corrective actions.

Table 1. DGM MQO table for towed-array EM61 system.

(a) All failures require an RCA.

(b) Duration of data collection is 1 minute for background, 1 minute for spike and 1 minute for second background measurement. All static repeatability is to be compared to original readings to ensure instrument is consistent throughout the project.

(c) The terms grid and dataset refer to logical groupings of data or data collection event. Logical groupings of data are contiguous areas mapped by the same instrument and in the same relative timeframe. These can be grids, acres, or some other unit of area. A data collection event is similar to logical groupings of data but refers to data collected over a contiguous timeframe, such as morning, afternoon, battery life, or some other measure of contiguous time.

(d) For static background, the expected baseline mV response is to be based on an average of all the static background readings collected during the first four days (or first week). For static spike the expected baseline peak mV response is to be based on an average of all the static spike readings collected during the first four days (or first week). For the IVS background, the expected baseline mV response is to be based on an average of all the IVS background readings for the first four days (or first week). For the IVS spike, the expected baseline mV response is to be based on an average of all the IVS spike readings for the first four days (or first week). For GSV BSI items the baseline mV response will be determined by recording an additional survey line that is offset ½ of the planned survey line spacing (1 ft) from the center of the seeded IVS line. This offset line will be recorded twice daily (am/pm) during the first four days (or first week) of DGM operation with the PP system(s) and the baseline mV response to be used for BSIs (for PP and towed array systems) will then be calculated by averaging all of the peak readings for each ISO at this 1 ft offset. Note that separate baselines will be generated and used for the PP and towed-array system static and IVS tests.

(e) GPS base station coordinates that are currently being used are provided by USACE/BRAC.

(f) Repeat occupation means demonstrate the control points being used can be recovered and reoccupied and that they have not moved more than the requirement specification. This can be accomplished using the same methodology used to initially tie the local network to a HARN, CORS, OPUS, or other recognized network, or it can be accomplished by other means that achieve this requirement.

(g) An example of frequently used control points would be points used as RTK DGPS base stations. Infrequently used points could be those used during GPS operations where the control point was used during mapping and then again at some later time for reacquisition and QC statistical sampling. Infrequently used points also could include grid corners; they are used for line and fiducial positioning and then reused for reacquisition or QC statistical sampling.

Note: Although it is highly unlikely, should an area originally categorized and seeded for Category B (i.e. seeded for DGM at a rate of approximately 1 Blind Seed Item (BSI) for every 4 acres and not planned for intrusive investigation) then be upgraded to Category A after DGM has been completed (i.e. should be seeded at a rate of 1 BSI per dig team per day and planned for intrusive investigation), that if the dig team does not have 1 BSI per dig team per day that this would not constitute a QC failure because the density of BSIs installed would have been based on the original selection of this area as Category B. The rationale for stating this scenario is that once the DGM data has been collected, it is impossible to add additional BSIs (i.e. add additional anomalies to the previously collected DGM data). If this scenario does occur, it has been identified in the QAPP and discussed in relation to QC objectives and their pass/fail criteria.

Seed ID	Grid	Reported Sum Response (mV)	Response Passes?	Total Offset (in)	Positioning Passes?
5003G	A3F2I5	238.68	Yes	4.986473	Yes
5001G	A3F2H8	220.47	Yes	6.15132	Yes
5002G	A3F2G6	193.71	Yes	3.982644	Yes
5004G	A3F2H3	194.73	Yes	7.98203	Yes
5006G	A3G2A4	267.26	Yes	8.793839	Yes
5007G	A3G2C2	268.54	Yes	6.247611	Yes
5010G	A3G1I6	236.46	Yes	10.27842	Yes
5021G	A3G1C4	209.69	Yes	4.404589	Yes
5019G	A3G1H3	176.00	Yes	13.70373	Yes
5009G	A3G2H1	277.53	Yes	2.364731	Yes
5028G	A2G0G0	283.42	Yes	4.464258	Yes
5011G	A3G1G8	225.05	Yes	10.15297	Yes
5012G	A3G1F5	129.22	Yes	15.82238	Yes
5020G	A3G1E2	332.83	Yes	8.810991	Yes
5008G	A3G1E0	211.05	Yes	13.71427	Yes
5013G	A3G1D7	273.62	Yes	4.511011	Yes
5022G	A3G1B2	177.58	Yes	14.75296	Yes
5014G	A3G1B9	201.29	Yes	3.111913	Yes
5023G	A3F1J4	241.58	Yes	3.15253	Yes
5005G	A3F2J1	353.84	Yes	4.495278	Yes
5015G	A3G1A6	351.24	Yes	10.67687	Yes
5024G	A3F1I1	179.96	Yes	11.80298	Yes
5016G	A3F1I8	217.00	Yes	8.083762	Yes
5030G	A2H0C8	197.74	Yes	7.538417	Yes
5029G	A2H0B9	306.33	Yes	5.825194	Yes
5017G	A3H1B2	253.99	Yes	9.24113	Yes
5041G	A2H0A2	215.09	Yes	4.674797	Yes
5018G	A3G1J1	258.99	Yes	13.22007	Yes
5026G	A2G0A9	278.85	Yes	8.600727	Yes
5025G	A2F0H8	294.94	Yes	1.820563	Yes
5027G	A2G0C7	210.68	Yes	6.750467	Yes
5034G	A2F0I6	200.85	Yes	1.622842	Yes
5031G	A2G0H6	187.01	Yes	5.587749	Yes
5032G	A2G0E5	246.35	Yes	4.874128	Yes
5040G	A2G0J4	258.47	Yes	9.161314	Yes
5033G	A2G0B4	247.48	Yes	8.3151	Yes
5038G	A2G0G3	229.26	Yes	6.397024	Yes
5036G	A2G0D2	245.82	Yes	5.925242	Yes
5062G	A2F9J0	297.94	Yes	8.241493	Yes
5037G	A2G9F0	167.13	Yes	12.13381	Yes

Seed ID	Grid	Reported Sum Response (mV)	Response Passes?	Total Offset (in)	Positioning Passes?
5039G	A2G0I1	205.75	Yes	11.38216	Yes
5035G	A2G0A1	237.50	Yes	11.14851	Yes
5061G	A2G9C9	178.47	Yes	10.39958	Yes
5059G	A2G9H8	216.36	Yes	2.27434	Yes
5060G	A2G9E7	231.87	Yes	10.90251	Yes
5058G	A2G9J6	236.09	Yes	6.208397	Yes
5063G	A2G9B6	240.67	Yes	6.97839	Yes
5065G	A2G9G5	284.28	Yes	6.679097	Yes
5057G	A2H9B4	238.47	Yes	3.485912	Yes
5064G	A2G9D4	352.75	Yes	9.108822	Yes
5054G	A2G9I3	265.54	Yes	3.267373	Yes
5052G	A2G9F2	561.50	Yes	11.54141	Yes
5051G	A2G9C1	195.07	Yes	6.862175	Yes
5056G	A2H9A1	283.29	Yes	10.26227	Yes
5053G	A2G8H0	224.43	Yes	6.979597	Yes
5050G	A2G8E9	195.38	Yes	14.98394	Yes
5042G	A2H8C9	216.92	Yes	17.19935	Yes
5055G	A2G8J8	260.14	Yes	6.603937	Yes
5049G	A2G8G7	288.37	Yes	13.46925	Yes
5043G	A2H8E7	316.15	Yes	5.760025	Yes
5046G	A2H8B6	239.47	Yes	9.909675	Yes
5048G	A2G8I5	237.62	Yes	13.41088	Yes
5045G	A2H8D4	262.20	Yes	9.385964	Yes
5047G	A2H8A3	225.13	Yes	6.493164	Yes
5044G	A2H8F3	212.99	Yes	6.029603	Yes

Table 2. Blind QC seed response and positioning results in Unit 5.

Appendix D

Army-BLM Joint Inspection Summary

Joint Inspection Summary – Unit 5

Subject: Joint Post-Remediation Inspection of Areas of Comment by the Bureau of Land Management (BLM) to Munitions Response Site (MRS) – BLM Unit 5

Area of Inspection: MRS-BLM Unit 5

Date: December 6, 2022

Attendees: Eric Morgan, Bureau of Land Management (BLM). Curtis Payton, United States Army Corps of Engineers (USACE). Chieko Nozaki, Chenega supporting Army Base Realignment and Closure (BRAC). Hudson Facchini, Chenega supporting BRAC. Bart Kowalski (BRAC Biologist), Chenega supporting BRAC. Chris Light, Kemron.

References:

- Addendum to Final Work Plan, MRS-BLM Units 1-5, Munitions and Explosives of Concern Removal, Former Fort Ord, California, Unit 5, April 2022 (Administrative Record [AR] # OE-0626U).
- Final Record of Decision, Impact Area Munitions Response Area, Track 3 Munitions Response Site, Former Fort Ord, California, May 2008 (AR # OE-0647).
- MRS-BLM Units 4, 11, and 12, MEC Remedial Action, Technical Memorandum, Former Fort Ord, California, August 2013 (AR # OE-0790B).

Background:

The Army conducted surface munitions and explosives of concern (MEC) removal and Digital Geophysical Mapping (DGM) in Unit 5 in accordance with the *Addendum to Final Work plan, MRS-BLM Units 1-5, Munitions and Explosives of Concern Removal, Former Fort Ord, California, Unit 5,* April 2022 (Administrative Record [AR] # OE-0626U). An inspection by BLM and the Army of the unit was conducted to discuss the extent of subsurface MEC removal that may be required to support BLM's proposed future work (e.g., erosion control, habitat management). It is an Army responsibility to conduct remedial actions that prepare the property for BLM's safe management and use. The Army will provide MEC removal and/or construction support for BLM's future ground disturbing activities as jointly agreed upon. Construction support for ground disturbing or intrusive activities is a part of the selected remedy as described in the *Final Record of Decision, Impact Area Munitions Response Area, Track 3 Munitions Response Site, Former Fort Ord, California,* signed May 2008 (AR # OE-0647). The inspection examined existing roads and areas of erosion concern that could require subsurface MEC removal action based on BLM's planned use.

BLM written comments to the Site-Specific Work Plan (SSWP) for MRS-BLM Units 4, 5A, 9, 11, and 12 (BLM letter dated April 5, 2011, AR # OE-0736.4) included notations that fell within Unit 5. The joint inspection summary for the adjacent Unit 4, included items 1, 2 (portion), and 3 that fell within Unit 5. Those comments were deferred pending completion of surface MEC remediation and DGM of Unit 5, as described in Appendix B of the *MRS-BLM Units 4, 11, and 12, MEC Remedial Action, Technical Memorandum, Former Fort Ord, California*, August 2013 (AR # OE-0790B).

An inspection of Unit 5, including the areas of previous comments by BLM, was conducted on December 6, 2022, after completion of the planned MEC remediation work in this unit.

Objective:

The joint inspection provided an on-site assessment of Unit 5. Unit 4, located south of Unit 5, and Unit 5A, located east of Unit 5, have been evaluated in previous inspections.

The inspection included visual assessments of locations of BLM interest and included a discussion of the actions necessary to attain the proposed conditions described by BLM. The inspection included an observation of sensitive habitat areas (e.g., wetlands and areas undergoing habitat restoration). The inspection is intended to determine a mutually acceptable pre-transfer course of action to achieve MEC safety status for the locations inspected.

The Army will evaluate completed MEC removal work, DGM, and surface monitoring data for all comment locations to determine an appropriate level of construction support required for future BLM activities in those areas. An interim determination will be included in the Technical Memorandum.

Attachment 1: Figure 1, Item 1: Roads, gullies and associated hardstand proposed for restoration.

Notes from the Unit 4 joint inspection conducted on September 19, 2012. BLM had described a plan to fill in the gullies, eliminate the base rocks on the road, reshape the area to blend the native landscape and cross rip the adjoining area to a depth of 18 inches. The area would then be planted with native seedlings and stabilized with a light covering of seed and straw.

> *"The inspection found that portions of an old base rocked road were compacted, and gullies have formed on both shoulders with erosion to a depth of 4-6 feet. The erosion features [originate] at the southern shoulder of Darwin Road fuel break and extend south for approximately 500 feet. The erosion adversely impacted the native habitat by removing surface soils to a width of approximately 5-15 feet resulting in persistent vertical surfaces. A culvert collects water from the uphill slope and carries it under a portion of old road, however previous flows have eroded the intended channel and undercut the compacted roadway. BLM provided that the proposed construction intervention above could halt expansion of the erosion feature, protect adjacent habitat, provide for habitat reclamation, and prevent future erosion impacts to Darwin Road at that location."*

At the time, the Army noted that the location was within Unit 5 which was not scheduled for remediation until a later date, and that the Army would coordinate with BLM concerning any changes in the status of this area after completion of MEC remediation in Unit 5.

This area was visited during the Unit 5 Joint Inspection.

- The location includes Nason Road which has a road marker at Darwin Road. Nason road is not a part of the network of regularly-maintained fuel break roads. The significant erosion previously observed on the northern stretch had been addressed by applying mulch. Southern segment had aggregate/rocks applied. The road was drivable, and vegetation was growing on the edges. No erosion was observed. BLM identified it as a possible opportunity for restoration, including removal of the aggregate. The Army did not identify a need for vehicle access and the attendees

agreed that the Army would minimize and discourage vehicle access on Nason Road, and that the vegetation should be allowed to regrow naturally. It was noted Unit 5, 5A and 4 had a requirement for future prescribed burning by the Army. The attendees agreed, that at the time of prescribed burn preparation, the Incident Commander may require Nason road to be updated. No additional subsurface removal will be considered unless the road is identified for use as part of the Army's prescribed burns.

- The location includes an approximately 500-foot segment of aggregate/rocks parallel to Darwin Road and west of Nason Road. This area has existed since before the base closure. No erosion was observed. BLM identified it as a possible opportunity for restoration, including removal of the aggregate. It was noted that Yadon's piperia and Monterey spineflower had been recorded in the immediate area. The Army will examine DGM data for this area. No additional subsurface removal will be considered until the planning stages for site preparation for the Unit 5 prescribed burn.

Attachment 1: Figure 1, Item 2: Road proposed for restoration.

Notes from the Unit 4 joint inspection conducted on September 19, 2012: BLM would reshape the area to blend the native landscape and cross rip the adjoining area to a depth of 18 inches. The road would be planted with native seedlings and stabilized with a light covering of seed and straw.

> *"The inspection found the subject road (Forrestal Road) connecting South Boundary Road to Darwin Road structurally stable. The northern portion of Forrestal Road is within Unit 5. While the road is not a part of the permanent fuel break system, the Army described the road as critical to prescribed burn operations for removal of vegetation in support of MEC remediation in MRS-BLM (access to a helicopter dip tank and water supply tank location), as well as access to an ongoing soil remediations site (HA-29). The attendees agreed that the area could be managed without subsurface construction during environmental remediation."*

The Army noted that it would coordinate with BLM concerning any changes in the status of the area after completion of MEC remediation in Unit 5.

This area was visited during the Unit 5 Joint Inspection.

- The location includes Forrestal Road from Darwin Road to South Boundary Road, which is not a part of the network of regularly-maintained fuel break roads. Subsurface removal had been conducted on the 15-foot width of the road in the Unit 5-portion (between Darwin Road and Vulcan Road). Review of available Unit 5 figures showed a short gap in subsurface removal at the north end of Forrestal Road. The dirt road was flat, with little ponding from the recent rain, and no erosion issues were observed. BLM and BRAC Biologist discussed that Forrestal Road might not need full restoration activities BLM typically conducts (cross ripping, seeding and/or planting) because natural recruitment was likely. Mulch stockpiled near HA-29 could potentially be applied to the road. The Army did not identify a need for vehicle access on the dirt road north of the water tanks, except for possible future use as part of the prescribed burn program. The water tanks (within Unit 4) had previously been accessed from South Boundary Road, on a

stretch of Forrestal Road with aggregate/rocks applied. The attendees agreed that the Army would minimize and discourage vehicle access on Forrestal Road and that the vegetation should be allowed to regrow naturally. The Army will review the MEC removal records for the apparent gap in subsurface removal at the north end of Forrestal Road. No additional subsurface removal will be considered unless the road is identified for use as part of the Army's prescribed burns.

Attachment 1: Figure 1, Item 3: Road proposed for restoration.

Notes from the Unit 4 joint inspection conducted on September 19, 2012: BLM would reshape the area to blend the native landscape and cross rip the adjoining area to a depth of 18 inches. The road would then be planted with native seedlings and stabilized with a light covering of seed and straw.

> *"The inspection identified the subject road as Vulcan Road connecting Evolution Road and Forrestal Road. Vulcan Road is not a permanent fuel break road. The western portion (500 feet) of the road was observed as a steep (20-30°) slope with significant erosion at the intersection with Evolution Road in vicinity of a culvert that drains the west facing portion of the subject roadway, containing the flow beneath Evolution Road when opening to the west, parallel to Phoenix Road. It was noted that the western portion of Vulcan Road contains rolling dips installed to disperse surface runoff which may have failed thus contributing to the current erosion of the road surface at the culvert. The erosion at the culvert was observed to be 8 ft deep, 10 ft wide and 25 ft long. Inspection of the eastern 1500 ft of roadway identified no significant erosion or compaction. The northern shoulder of the Vulcan Road parallels the southern boundary of Unit 5. This area may be subject to containment line construction prior to a future prescribed burn."*

The Army noted that Unit 5 was not scheduled for remediation until a later date, and that the Army would coordinate with BLM concerning any changes in the status of this area after completion of MEC remediation in Unit 5.

This area was visited during the Unit 5 Joint Inspection.

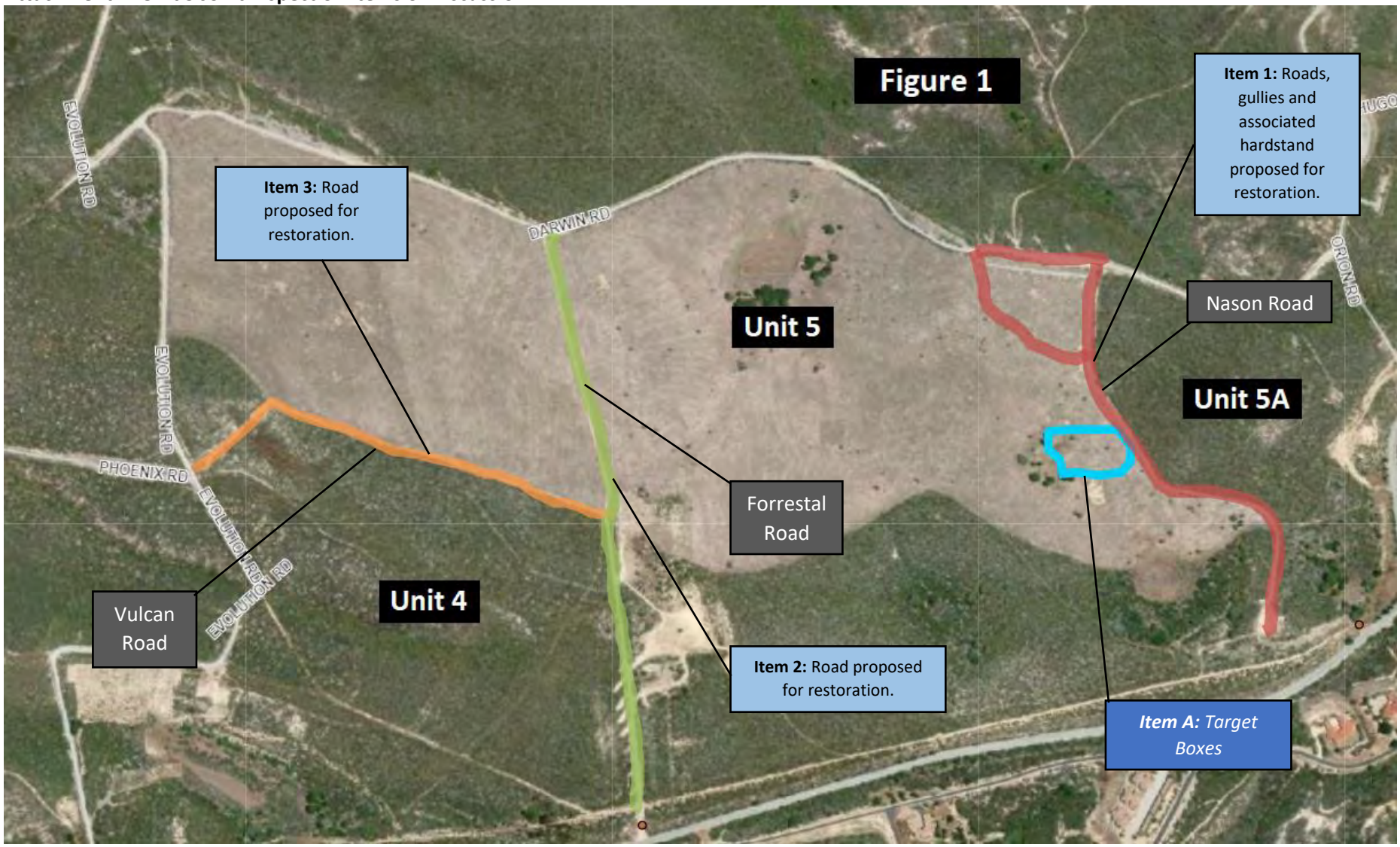
- The location includes Vulcan Road east of Forrestal Road, which is not a part of the network of regularly-maintained fuel break roads. Subsurface removal had been conducted in the 15 -foot width of the road. The eastern portion near the intersection with Forrestal Road had been used by the DGM team for equipment access during remedial action in Unit 5. The dirt road near Forrestal Road was flat, and no erosion issues were observed. BLM and BRAC Biologist discussed that natural recruitment was likely. The Army did not identify a need for vehicle access on the dirt road. The attendees agreed that the Army would minimize and discourage vehicle access on Vulcan Road and that the vegetation should be allowed to regrow naturally.
- An erosion feature at the culvert was observed from Evolution Road. A 3-ft diameter corrugated pipe could be observed on the Unit 5 side of Evolution Road; it did not daylight on the other side. No evidence was observed of runoff or soil washing over and across the road. Erosion on the Unit 5 side extended beyond the Evolution Road fuel break markers and did not seem active. It did not appear that it would interfere with the periodic vegetation mowing along Evolution Road. BLM determined it did not present a useful opportunity for habitat restoration.

Attachment 1: Figure 1, Item A: Former target boxes.

The attendees visited the area of former target boxes during the Unit 5 Joint Inspection.

- A series of target boxes (concrete vaults) had been observed west of Nason Road during the MEC remedial action in Unit 5. The attendees visited a handful of them near the road. The vaults were not more than 4 feet deep and no ponding was observed. BLM stated their preference for restoration would be (a) rip them out, (b) crush/break the concrete boxes, and/or (c) fill them with soil. Filling them with nearby soil would be the most economical, would facilitate habitat regrowth, and would prevent California tiger salamander from being trapped. Similar methods had been used to address latrine vaults at munitions response sites. The attendees agreed that filling the former target boxes with nearby native soil or mulch would be reasonable.

Attachment 1: Unit 5 Joint Inspection Items of Discussion



Appendix E

MRS-BLM Unit 5 MEC Remedial Action DGM Data Assessment and Anomaly List Development

Appendix E

MRS-BLM Unit 5 MEC Remedial Action DGM Data Assessment and Anomaly List Development Former Fort Ord, California

Final

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February 2023

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Appendix A Unit 5 Potential Large Item Target Lists

1.0 Introduction

This Data Assessment describes the protocols and approaches used to perform the Anomaly List Development for anomalies that could represent large projectiles at shallow depths within Munitions Response Site (MRS) - Bureau of Land Management (BLM) Unit 5 (Figure 1). The DGM data were collected by NAEVA Geophysics in support of the munitions and explosives of concern (MEC) remedial action (RA), beginning in September 2022 and concluding in November 2022. The work described in this Data Assessment was conducted in accordance with Field Work Variance No. 008, Final, Site-Specific Work Plan, Munitions and Explosives of Concern Remedial Action, MRS-BLM Unit 23 and in support of Units 11 and 12 Prescribed Burns (Includes portions of 5A, 9, 25, 28, and 31), Former Fort Ord, California *(FWV 008) (KEMRON, 2017).*

1.1 Purpose

The purpose of the Data Assessment is to identify subsurface anomalies within Unit 5 that are potentially related to large, near-surface ordnance items which may be investigated in an optional risk reduction effort to reduce the risk to ground and air personnel during future prescribed burns in Unit 5. AECOM's Project Geophysicist and Quality Control (QC) Geophysicist, under subcontract to KEMRON, were tasked with using NAEVA's final processed DGM data to develop a list of anomalies with response signatures consistent with the large munitions known to exist at Fort Ord.

Based on habitat requirements, a prescribed burn will be conducted in Unit 5 at a later date. During the vegetation cutting in Unit 5, one 8-inch high explosive projectile was recovered. While no other 8-inch projectiles were encountered during the Unit 5 RA, U.S. Army Corps of Engineers (USACE) has determined the potential presence of 8-inch projectiles remaining in the shallow subsurface as presenting a low-likelihood (but high-impact) risk to prescribed burn personnel, should an unintentional detonation occur during prescribed burn operations; and recommended limited subsurface removal to remove large projectiles at shallow depths to support future prescribed burning.

In 2015, USACE Safety determined that removal of 155mm projectiles and 8-inch projectiles to two- and one-foot depths (applied to the outer zone within 436 feet of the perimeter fuel breaks, and to the interior zone 436 feet or more away from the perimeter fuel breaks, respectively) within Units 11 and 12 was required to reduce the high-impact risk associated with these items during conduct of prescribed burning. The risk reduction activity successfully addressed these items at Units 11 and 12. A similar process was

implemented in Unit 23 in 2018-2019. Anomaly selection criteria are described in FWV 008 (KEMRON, 2017).

Based on the similar munitions items and objectives, the same evaluation criteria were applied to the DGM data to select anomalies that would be further evaluated or investigated in Unit 5.

The first evaluation criterion addresses the removal of anomalies that are classified as 155mm projectiles, 8-inch projectiles, or larger MEC items to a depth of two feet in the outer zone, which exists within 436 feet of the perimeter of the 45-foot wide fuel break roads. Geophysical anomalies with response values greater than 114 mV on the third EM61-MK2 channel will be selected for further evaluation.

The second evaluation criterion addresses the removal of anomalies that are classified as 155mm projectiles, 8-inch projectiles, or larger MEC items to a depth of one foot in the interior zone, which exists 436 feet or more from the perimeter of the 45-foot wide fuel break roads. Geophysical anomalies with response values greater than 446 mV on the third EM61-MK2 channel will be selected for further evaluation.

1.2 Site Location

Fort Ord is located in northwestern Monterey County, California, approximately 120 miles south of San Francisco. The Impact Area MRA consists of approximately 6,560 acres in the southwestern portion of the former Fort Ord. Unit 5 is approximately 130 acres and is in the southern portion of the MRA, within the MRS-BLM. Unit 5 is bounded by Darwin Road to the North, Nason Road and Unit 5A to the East, Vulcan Road and Unit 4 to the South, Unit 7 and Evolution Road to the West. Darwin Road and Evolution Road are regularly maintained fuel breaks. It should be noted that Vulcan Road and Nason Road are not part of the regularly maintained fuel break system.

2.0 Data Assessment and Anomaly List Development

As part of the Unit 5 RA, technology-aided surface munitions and explosives of concern (MEC) removal and DGM have been completed in Unit 5. Of primary importance to the Data Assessment and Anomaly List Development was the DGM data collection that took place immediately following the surface MEC removal. This work was performed on all accessible portions of the unit with the exception of two known ponds (#21 and #76), the habitat restoration areas of HA-29 (where soil remediation has taken place and subsurface removal has been conducted; subsurface removal areas are not subject to any further evaluation), large stands of uncut trees adjacent to the two ponds, and the extreme southwest corner of the unit. The southwest corner had been previously mapped in 2013 using the same DGM methods described in Section 2.1 below. The 2013 data have been reported in MRS-BLM Units 7, 10, and 33 MEC Remedial Action, Technical Memorandum, Former Fort Ord, California (Units 7, 10, and 33 TM) (Gilbane, 2015) and were incorporated with the data collected in 2022 when creating the final target lists.

2.1 Digital Geophysical Mapping Survey

The DGM survey was conducted with a vehicle-towed EM61-MK2A array, starting on September 12, 2022 and ending on November 23, 2022. DGM was performed over a total of 123.7 acres (this total does not include the 3.9 acres of DGM collected in 2013 and described in the Units 7, 10, and 33 TM (Gilbane, 2015)). Figure 2 provides an image of the final contoured geophysical data. Note that the scope of the DGM survey did not include Pond 21 or Pond 76. Pond 21 was mapped and cleared under a separate effort, and Pond 76 is scheduled to be mapped and cleared at some point in t he future.

The DGM data collection effort achieved full coverage of Unit 5, with the exception of documented data gaps that were inaccessible to the towed array platform such as steep slopes, stands of trees, and the ponds described above. Measurement quality objectives (MQOs) were achieved, and QC/QA processes were implemented in accordance with the Addendum to the Final SSWP (KEMRON, 2021). Measurement performance criteria were evaluated according to the standards specified in the Addendum to the Final SSWP (KEMRON, 2021). The overall anomaly density of the Unit can be characterized as low-to-moderate density as compared to other Units within the Fort Ord Former Impact Area. A more detailed discussion of the DGM field effort is reported in Section 2.3 of the main narrative of the Technical Memorandum to which this report is appended.

2.2 Processed Data Analysis

Final processed data were delivered by grid block, which is defined as one or more 100-foot by 100-foot grid cells that were mapped simultaneously as a single unit. The Geosoft database files (*.GDB) associated with each grid block were then combined into a single database comprising all of the DGM data collected in Unit 5. Data from EM61-MK2 Channel 3 were selected for analysis in order to maintain consistency with previous evaluations for large munitions items at Fort Ord. Both the 2013 data and the 2022 data were gridded using the minimum curvature method in order to create a final contour map of the Channel 3 data. The gridding parameters used included a grid cell size of 0.3125 feet and a starting search radius of two (2) feet. The gridded data were displayed using a color scale designed to highlight responses consistent with large munitions items in the subsurface.

2.3 Target Selection

Targets were selected from the final Channel 3 gridded data. An automated target picking algorithm (Blakely Method) was used to select peak responses above a minimum amplitude response criterion (threshold). Two different thresholds were used, consistent with previous large munitions evaluations performed on DGM data at Fort Ord as described in FWV 008 (KEMRON, 2017). The first target list was created using a threshold of 114 mV which represents the response of a horizontal 155mm projectile two feet below the ground surface. Although no 155mm projectiles have been recovered from Unit 5 to date, they have been found in adjacent units and since the 155mm projectile is smaller than an 8-inch projectile, this threshold represents a more conservative approach to target selection. The 114 mV target selection criterion had previously been used in the outer zones (areas closest to the Unit boundaries and typically prescribed burn containment lines) of Units with large munitions risk reduction efforts. The second target list was created using a threshold of 446 mV which represents the response of a horizontal 155mm projectile one foot below the ground surface. This target selection criterion (446 mV) had previously been used in the inner zones of units with large munitions risk reduction efforts. Note that since an 8-inch projectile is larger than a 155mm projectile, any 8-inch projectiles within Unit 5 would also be located at the prescribed depths using the targeting threshold described above. The two different selection criteria were developed previously to provide protection to both ground support personnel and aerial support personnel during prescribed burns by removing large munitions to a depth of up to two feet in the Unit's outer zone and up to one foot in the Unit's inner zone. For both target lists, after the automated selection process was completed, any targets within two feet of each other were merged into a single composite target. Following that step, any targets that were associated with known cultural features, primarily fuel break markers and target boxes, were removed from the target lists. The final target lists were then exported as Microsoft Excel files (*.xlsx) and are included in Appendix A of this Data Assessment.

3.0 Results

As described in Section 2.3, if an initial target selection was found to be coincident with a known cultural feature, it was removed from the final target list. However, in some cases this determination could not be made conclusively based solely on data analysis. If the contoured response data appeared to extend away from the cultural feature or the location of the response did not precisely match the measured location of the feature, the data analyst elected to leave the target on the final list. Any such targets were annotated with appropriate comments.

The final target lists contain the refined target locations of all targets, not attributable to known culture, with responses equal to or greater than 114 mV and 446 mV, respectively, in Channel 3 of the EM61-MK2. A total of 95 targets were selected above the 114 mV threshold which represents the maximum number of locations that could have a 155mm projectile or larger (e.g. 8-inch projectile) at a depth of up to two feet. When viewed on the overall map of Unit 5 (Figure 3), the greatest concentration of targets at depths up to two feet is observed in the southeastern portion of the Unit, in and around the known target boxes. Out of the 95 targets selected above the 114 mV threshold, 31 targets were also above the 446 mV threshold representing locations that could have a 155mm projectile or larger at a depth of one foot or less. The map of these targets (Figure 4) shows a similar distribution to the potentially deeper targets with most occurring in and around the target boxes, and no targets at all in the western half of the Unit. For both target lists, the large majority of the targets are located within approximately 200 feet of the Unit boundary.

4.0 Conclusions and Recommendations

Based on the presence of large munitions items in Units adjacent to Unit 5, and the recovery of an 8-inch projectile during the Unit 5 RA, a DGM data assessment was performed to identify anomalies that could represent large projectiles at shallow depths in Unit 5. This Data Assessment identified 95 targets were identified with response characteristics consistent with a large munitions item within two feet of the surface. Of those 95 targets, 31 exhibited response characteristics consistent with a large munitions item within one foot of the surface. Previous risk reduction efforts at Fort Ord delineated an outer zone for the unit in which targets up to two feet deep were investigated and an inner zone in which targets up to one foot deep were investigated. Using a similar methodology in Unit 5 would result in a further reduction in the total number of potential targets, because any targets in the inner zone with responses less than 446 mV would not need to be investigated. Based on the relatively small number of target locations, it is recommended that conventional intrusive methods be used to complete the risk reduction. The use of advanced geophysical classification (AGC) would be unlikely to result in a significant savings in either time or cost.

As described in Section 2.1 and in the main body of this Technical Memorandum, gaps exist in the DGM data due to areas that were not accessible to the collection instrument. Of these, Pond 21, Pond 76, and the restoration area designated as HA-29 either have been or will be intrusively investigated under separate efforts and so need not be addressed as part of the risk reduction. Small gaps associated with single trees or steep slopes are unlikely to mask the broad, high-amplitude responses associated with large munitions items in the shallow subsurface. The remaining large gaps are associated with large stands of uncut trees adjacent to the ponds. During previous risk reduction efforts, it was determined by USACE that the distance of large stands of trees from the surrounding fuel break system and the protective overhead canopy of the trees provided sufficient risk reduction without the need for additional investigation and subsurface removal. If it is determined that this condition does not apply in Unit 5, it is recommended either that additional DGM be performed in these areas with subsequent intrusive investigation of targets meeting the large item response criteria or that an analog subsurface removal be performed within the stands of trees.

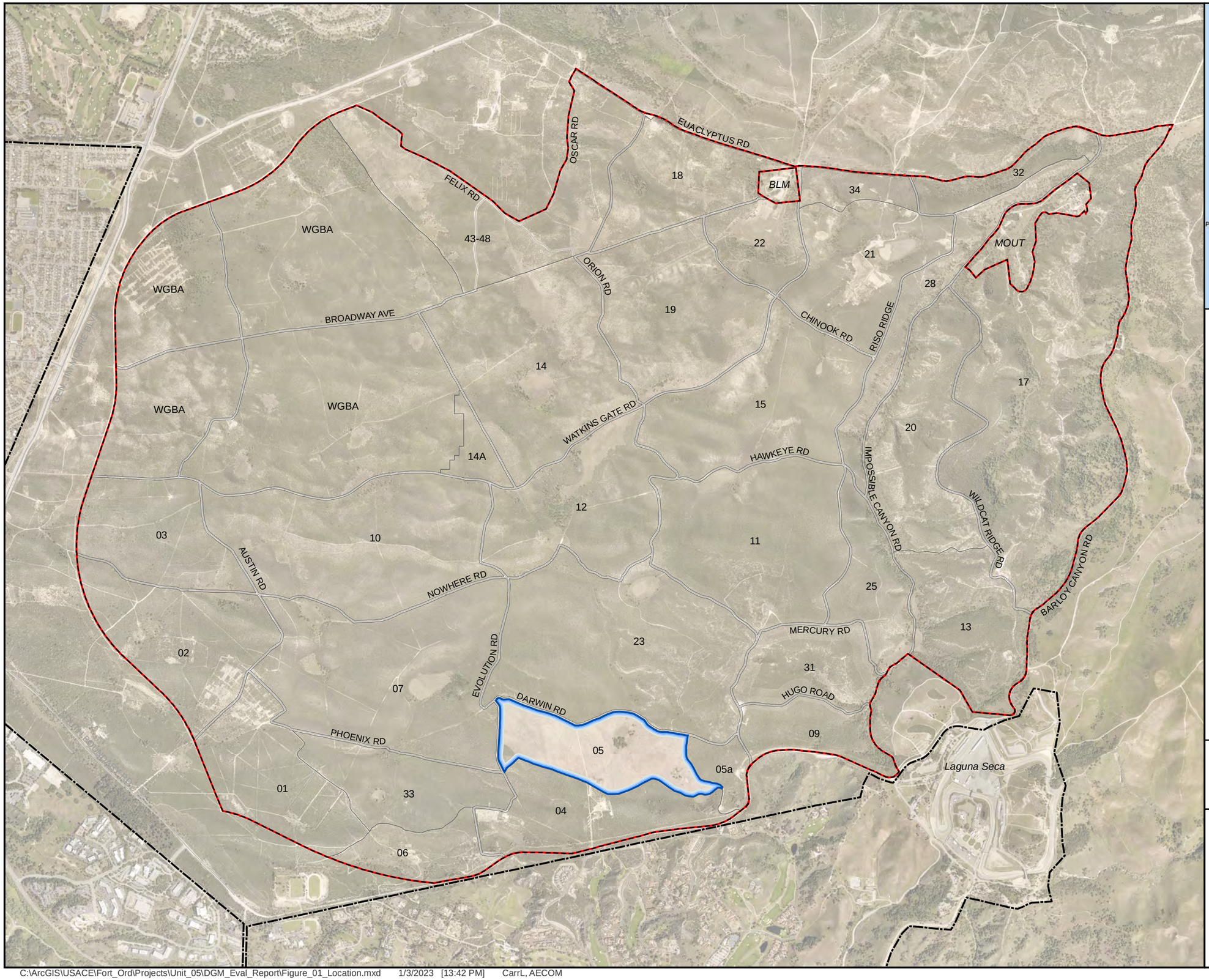
5.0 References

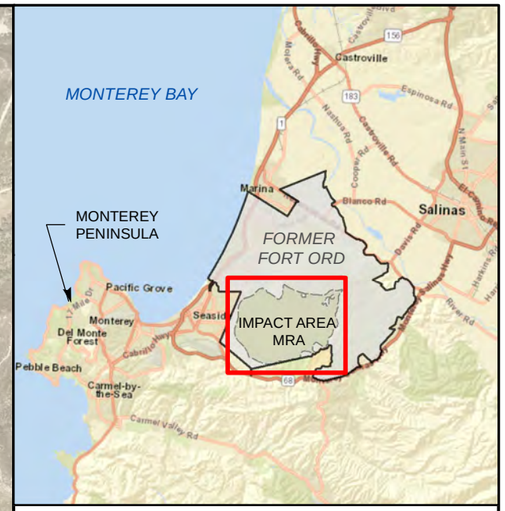
Gilbane, 2015, *MRS-BLM Units 7, 10, and 33 MEC Remedial Action, Technical Memorandum, Former Fort Ord, California.* (OE-0842)

KEMRON, 2017, *Field Work Variance No. 008 to Final, Site-Specific Work Plan, Munitions and Explosives of Concern Remedial Action, MRS-BLM Unit 23 and in support of Units 11 and 12 Prescribed Burns (includes portions of 5A, 9, 25, 28, and 31), Former Fort Ord, California.* (OE-0862B.5)

KEMRON, 2021, *Addendum to Final Work Plan, MRS-BLM Units 1-5, Munitions and Explosives of Concern Removal, Former Fort Ord, California, Unit 5.* (OE-626U)

Figures





Legend

- Unit 5 Boundary
- Impact Area MRA Track 3 Boundary
- Former Fort Ord Boundary

N

2,000 0 2,000 Feet

MRS-BLM Unit 5
MEC Remedial Action
DGM Evaluation
Former Fort Ord, California

Figure 1

Site Location Map

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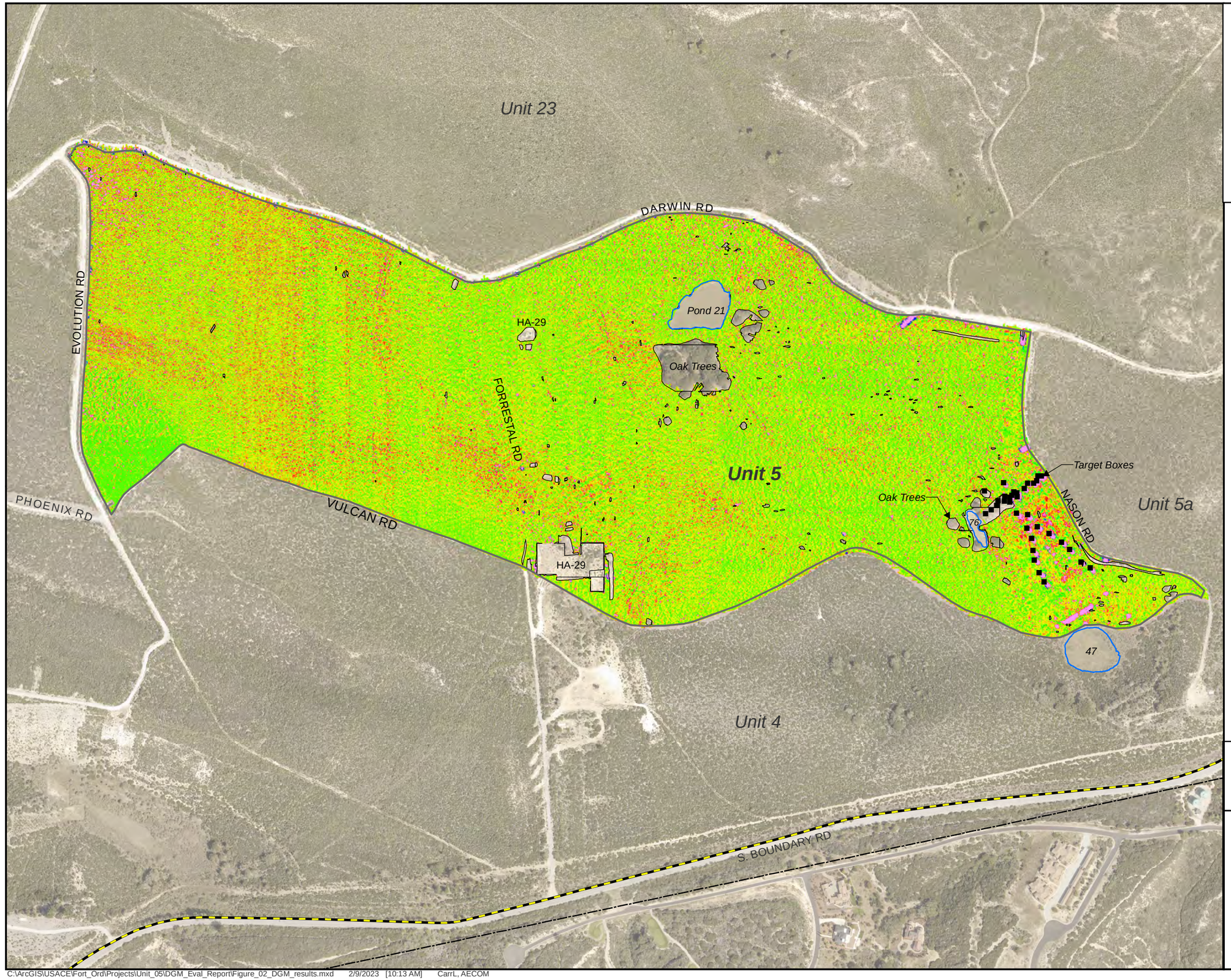
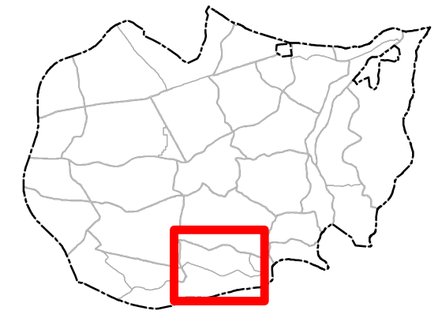
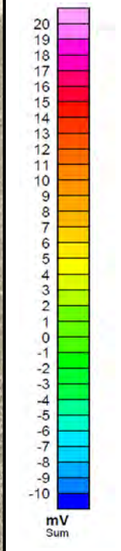




Legend

- Former Target Box (Concrete Vault)
- No DGM (previously completed area, vegetation, or cultural feature)
- Unit 5 Boundary
- Pond Boundary
- Impact Area MRA Boundary
- Former Fort Ord Boundary



DGM Survey Response Value Scale

N

0 200 400 800 Feet

MRS-BLM Unit 5
MEC Remedial Action
DGM Evaluation
Former Fort Ord, California

Figure 2

DGM Survey Results

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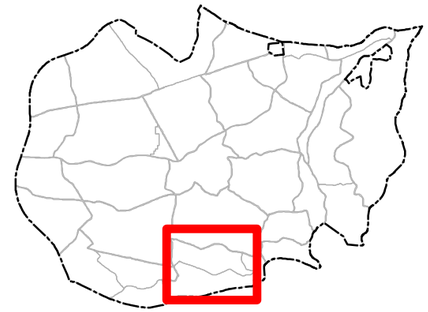
Note: The color scale on this figure differs from the typical Fort Ord color scale used for DGM data deliverables. It was selected to highlight the high amplitude features of interest and because this figure displays only Channel 3 data rather than SUM Channel data.



Legend

Known Cultural Feature

- Hole
- Mound
- Ditch
- Inaccessable to Towed
- Pole/Post
- Tree/pond/slope
- Reinforced Concrete
- Slope/Vegetation
- Stump
- Target box/Trees
- Targets – Channel 3 response 114 mV or higher
- Pond Boundary
- Unit 5 Boundary
- Boundary of Fuel Break Zone (436-foot buffer)
- Impact Area MRA Boundary
- Former Fort Ord Boundary

mV Channel 3: 100, 98, 96, 94, 92, 90, 88, 86, 84, 82, 80, 78, 76, 74, 72, 70, 68, 66, 64, 62, 60, 58, 56, 54, 52, 50, 48, 46, 44, 42, 40, 38, 36, 34, 32, 30, 28, 26, 24, 22, 20, 18, 16, 14, 12, 10, 8, 6, 4, 2, 0

N

0 200 400 800 Feet

MRS-BLM Unit 5
MEC Remedial Action
DGM Evaluation
Former Fort Ord, California

Figure 3

Large Targets to 2-feet

C:\ArcGIS\USACE\Fort_Ord\Projects\Unit_05\DGM_Eval_Report\Figure_03_large_targets_2ft.mxd 2/10/2023 [11:20 AM] CarrL, AECOM

Note: The color scale on this figure differs from the typical Fort Ord color scale used for DGM data deliverables. It was selected to highlight the high amplitude features of interest and because this figure displays only Channel 3 data rather than SUM Channel data.

Unit 23

DARWIN RD

EVOLUTION RD

FORRESTAL RD

NASON RD

VULCAN RD

PHOENIX RD

S. BOUNDARY RD

Unit 5

Unit 5a

Unit 4

HA-29

Pond 21

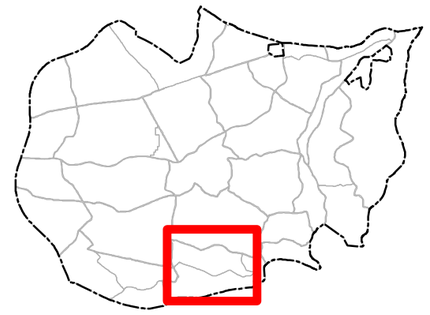
Oak Trees

Pond 76

Target Box Area

Pond 47

mV
Channel 3



Legend

- Targets – Channel 3 response 446 mV or higher

Known Cultural Feature

- Hole
- Mound
- Ditch
- Inaccessable to Towed
- Pole/Post
- Tree/pond/slope
- Reinforced Concrete
- Slope/Vegetation
- Stump
- Target box/Trees
- Pond Boundary
- Unit 5 Boundary
- Boundary of Fuel Break Zone (436-foot buffer)
- Impact Area MRA Boundary
- Former Fort Ord Boundary

N

0 200 400 800 Feet

MRS-BLM Unit 5
MEC Remedial Action
DGM Evaluation
Former Fort Ord, California

Figure 4

Large Targets to 1-foot

C:\ArcGIS\USACE\Fort_Ord\Projects\Unit_05\DGM_Eval_Report\Figure_04_large_targets_1ft.mxd 2/10/2023 [11:20 AM] CarrL, AECOM

Appendix A

Table A-1

Final Target List
114 mV Threshold - EM61-MK2 Channel 3
Horizonatal 155mm Projectile - Up to 2 feet Below Ground Surface
MRS-BLM Unit 5 MEC Remedial Action
Former Fort Ord, California

SP Easting	SP Northing	Target_ID	Ch3 Response	Comments
5744915.00	2107800.63	1	12074.87	
5746228.44	2108924.38	2	10308.39	Suspected Culvert
5746787.47	2108227.86	3	8140.58	Suspected Target Box
5747053.44	2107866.25	4	7298.91	Suspected Culvert
5744604.69	2107844.69	5	5488.88	Suspected Reinforced Concrete
5746699.69	2108834.38	6	4968.72	Suspected Target Box
5746697.50	2108808.13	7	4470.55	Suspected Target Box
5746205.31	2108903.44	8	3913.12	Suspected Culvert
5746215.31	2108911.56	9	3480.13	Suspected Culvert
5746705.00	2108350.94	10	3362.16	Suspected Target Box
5747055.00	2107878.44	11	3320.62	Suspected Culvert
5746185.94	2108886.88	12	3191.35	Suspected Culvert
5746719.06	2108357.81	13	2509.71	Suspected Target Box
5744547.19	2108079.69	14	2125.51	
5746762.19	2107886.56	15	1990.30	
5746961.25	2107853.13	16	1689.12	Suspected Target Box
5744545.31	2108266.56	17	1512.05	
5746770.47	2108228.75	18	1433.98	Suspected Target Box
5746945.00	2107931.25	19	1229.98	
5746682.65	2108155.80	20	1157.31	Suspected Target Box
5746666.32	2108160.54	21	984.13	Suspected Target Box
5746650.00	2108138.28	22	835.68	Suspected Target Box
5746660.85	2108143.76	23	785.73	Suspected Target Box
5746804.53	2107925.63	24	729.37	
5746993.75	2107673.44	25	725.70	
5744606.56	2107834.38	26	670.50	Suspected Reinforced Concrete
5744910.63	2107803.13	27	661.85	
5744662.50	2107967.81	28	638.92	
5744670.63	2107945.00	29	478.56	
5744752.50	2107781.56	30	459.21	
5746687.50	2108052.81	31	448.84	
5745929.69	2107986.25	32	444.63	
5746815.00	2107910.94	33	413.96	
5746461.25	2108899.38	34	412.65	
5744600.78	2107825.31	35	404.08	
5742687.19	2109221.56	36	402.32	Suspected Metal Post
5746199.38	2108890.00	37	390.23	Suspected Culvert

SP Easting	SP Northing	Target_ID	Ch3 Response	Comments
5746980.00	2107657.81	38	372.27	
5746568.13	2108165.31	39	372.07	
5744606.56	2107840.94	40	361.02	Suspected Reinforced Concrete
5743230.94	2109230.94	41	339.56	
5744446.41	2108279.53	42	328.85	
5746898.75	2107742.81	43	326.07	
5744602.81	2107841.56	44	314.92	
5744903.44	2107848.75	45	296.31	
5746989.69	2107670.31	46	293.14	
5746218.44	2108925.31	47	290.90	Suspected Culvert
5744794.38	2107944.38	48	284.68	
5746984.84	2107669.06	49	284.28	
5746956.25	2107943.75	50	267.68	
5746829.38	2107896.25	51	263.37	
5745362.50	2108093.13	52	254.14	
5746840.00	2107863.44	53	247.80	
5744908.44	2107801.56	54	233.80	
5746180.63	2108876.25	55	219.55	Suspected Culvert
5745603.75	2108414.38	56	219.44	
5746894.84	2107604.38	57	208.28	
5744903.13	2107933.44	58	196.50	
5746912.50	2107625.00	59	192.06	
5744465.64	2109085.47	60	190.47	
5745110.00	2108931.56	61	189.20	
5746962.03	2107592.66	62	188.69	
5744764.69	2107925.63	63	188.46	
5744789.69	2107925.31	64	188.26	
5743940.94	2109250.31	65	186.62	
5746980.63	2107661.88	66	172.96	
5746192.19	2108902.50	67	170.03	Suspected Culvert
5744523.75	2108584.06	68	167.79	
5744584.06	2107869.06	69	160.84	
5746898.75	2107880.00	70	157.51	
5744605.63	2107868.75	71	153.01	
5742748.13	2109626.25	72	150.93	
5745617.50	2109289.69	73	150.70	
5746842.05	2107861.04	74	149.20	
5744914.06	2107794.69	75	149.08	
5746831.98	2107894.99	76	140.37	
5746842.19	2107585.63	77	140.26	
5742873.75	2109635.63	78	138.36	
5744424.23	2109076.36	79	138.19	
5746971.88	2107654.69	80	135.69	
5744518.13	2109098.13	81	133.28	
5746134.38	2108060.31	82	131.48	

SP Easting	SP Northing	Target_ID	Ch3 Response	Comments
5746953.44	2107647.81	83	130.69	
5746844.38	2107587.19	84	129.85	
5742675.00	2108922.19	85	124.75	Suspected Metal Post
5746444.47	2108901.10	86	120.19	
5746616.72	2108159.06	87	119.95	
5744550.00	2108079.06	88	119.95	
5746903.13	2107624.38	89	117.48	
5746909.69	2107628.75	90	116.60	
5744330.63	2109067.50	91	116.30	
5742704.40	2108651.56	92	115.33	
5744274.15	2109085.11	93	114.00	
5746970.15	2107857.87	94	114.00	Suspected Target Box
5745110.31	2109350.94	95	114.00	

Table A-2

Final Target List
446 mV Threshold - EM61-MK2 Channel 3
Horizonatal 155mm Projectile - Up to 1 foot Below Ground Surface
MRS-BLM Unit 5 MEC Remedial Action
Former Fort Ord, California

SP Easting	SP Northing	Target_ID	Ch3 Response	Comments
5744915.00	2107800.63	1	12074.87	
5746228.44	2108924.38	2	10308.39	Suspected Culvert
5746787.47	2108227.86	3	8140.58	Suspected Target Box
5747053.44	2107866.25	4	7298.91	Suspected Culvert
5744604.69	2107844.69	5	5488.88	Suspected Reinforced Concrete
5746699.69	2108834.38	6	4968.72	Suspected Target Box
5746697.50	2108808.13	7	4470.55	Suspected Target Box
5746205.31	2108903.44	8	3913.12	Suspected Culvert
5746215.31	2108911.56	9	3480.13	Suspected Culvert
5746705.00	2108350.94	10	3362.16	Suspected Target Box
5747055.00	2107878.44	11	3320.62	Suspected Culvert
5746185.94	2108886.88	12	3191.35	Suspected Culvert
5746719.06	2108357.81	13	2509.71	Suspected Target Box
5744547.19	2108079.69	14	2125.51	
5746762.19	2107886.56	15	1990.30	
5746961.25	2107853.13	16	1689.12	Suspected Target Box
5744545.31	2108266.56	17	1512.05	
5746770.47	2108228.75	18	1433.98	Suspected Target Box
5746945.00	2107931.25	19	1229.98	
5746682.65	2108155.80	20	1157.31	Suspected Target Box
5746666.32	2108160.54	21	984.13	Suspected Target Box
5746650.00	2108138.28	22	835.68	Suspected Target Box
5746660.85	2108143.76	23	785.73	Suspected Target Box
5746804.53	2107925.63	24	729.37	
5746993.75	2107673.44	25	725.70	
5744606.56	2107834.38	26	670.50	Suspected Reinforced Concrete
5744910.63	2107803.13	27	661.85	
5744662.50	2107967.81	28	638.92	
5744670.63	2107945.00	29	478.56	
5744752.50	2107781.56	30	459.21	
5746687.50	2108052.81	31	448.84	

Note: The contents of Table A-2 are a subset of Table A-1

Appendix F

Responses to Comments

RESPONSES TO COMMENTS

Document:	MRS-BLM Unit 05 Munitions and Explosives of Concern (MEC) Remedial Action Technical Memorandum, February 2023
Commenting Organization:	United States Environmental Protection Agency (EPA)
Name:	Maeve Clancy
Date of Comments:	March 20, 2023

General Comment 1:

A munitions response is defined as, "Response actions, including investigation, removal actions, and remedial actions to address the explosives safety, human health, or environmental risks presented by UXO [unexploded ordnance], DMM [discarded military munitions], or MC [munitions constituents], or to support a determination that no removal or remedial action is required." Munitions response actions may include the surface and subsurface removal of Department of Defense (DoD) military munitions (munitions) and actions to address both (MC) and incidental environmental contamination. It should be noted that U.S. statue defines military munitions in a comprehensive manner. Referring to such actions as surface and/or subsurface MEC [munitions and explosives of concern] implies that the goal of a response is not to remove every munition encountered, but only those that qualified personnel determine are MEC. For clarity, please revise the Tech Memo to use correctly and consistently the terms and definitions that U.S. statue and Department of Defense policies define.

Response to General Comment 1:

Comment acknowledged. The statutory definition of munitions response is included as Footnote 1 on page 1 in the *Addendum to Final Work Plan, MRS-BLM Units 1-5, Munitions and Explosives of Concern Removal, Former Fort Ord, California, Unit 5* (SSWP Addendum; Administrative Record [AR]# OE-0626U). Consistent with previous work and reporting as part of the Track 3 remedial action program, this technical memorandum describes the work as surface and/or subsurface MEC removal within the context of the aforementioned definition of a munitions response and as being performed in accordance with the SSWP Addendum and the *Final Work Plan, Remedial Design/Remedial Action, Track 3 Impact Area Munitions Response Area, Former Fort Ord, California.* (AR# OE-0660K). Therefore, within these contexts, it is understood that although the primary objective stated is the removal of MEC, other munitions items (i.e., MD) encountered will be removed as well, as described in the SSWP Addendum.

RESPONSES TO COMMENTS

General Comment 2:

The Tech Memo's reference to MEC appears to imply that munitions present or potentially on the surface or detected anomalies and/or munitions potentially present in subsurface are MEC. However, whether a munition that may either be present or has been recovered is MEC, is a determination that qualified personnel (e.g., Explosive Ordnance Disposal, Unexploded Ordnance Qualified Personnel) make after evaluation. The Tech Memo should be revised to make it clear that anomalies may be munitions and that qualified personnel must evaluate recovered munitions to determine whether they are MEC. For clarity, the Tech Memo should use munitions instead of MEC, unless qualified personnel have evaluated a recovered munition and determined it was MEC.

Response to General Comment 2:

Comment acknowledged. The term MEC is used in a manner consistent with previous reports. As described in the referenced SSWP Addendum, the term is used in support of the main objective of the remedy, which is also referenced and described in the *Final Track 3 Record of Decision, Impact Area Munitions Response Area, Track 3 Munitions Response Site, Former Fort Ord, California* (Track 3 ROD; AR# OE-0647). Recovered objects are identified as MEC only after examination and determination by appropriately qualified personnel. Subsurface anomalies are not considered as munitions or MEC unless they are intrusively investigated and further evaluated according to procedures. The 23 items that are reported as MEC in the technical memorandum have been evaluated and determined by appropriately qualified personnel as MEC after a consolidated detonation.

Specific Comment 1:

Section 1, Introduction, Page 1:
The text incorrectly refers to a munitions response as a MEC remedial action. The text states, "describes the munitions and explosives of concern (MEC) remedial action (RA) [surface MEC remediation and DGM survey] that …;" however, the Tech Memo addresses the completed and planned munitions response actions (e.g., investigation for and removal of munitions from the surface and subsurface) at Munitions Response Site – Bureau of Land Management (MRS BLM)-Unit 5. Please revise the Tech Memo for clarity.

Response to Specific Comment 1:

Comment acknowledged. The first two sentences of the introduction on page 1, have been changed to: "This Technical Memorandum (TM) describes and summarizes the munitions response within Munitions Response Site (MRS) - Bureau of Land Management (BLM) Unit 5 (Figure 1). The selected remedy, as described in *Final Track 3 Record of Decision, Impact Area*

Munitions Response Area, Track 3 Munitions Response Site, Former Fort Ord, California (Track 3 ROD; Army, 2008), Technology-Aided Surface Munitions and Explosives of Concern (MEC) Remediation with Subsurface MEC Remediation in Selected Areas and Land Use Controls, constitutes the munitions response required for MRS-BLM Unit 5." Information in other sentences were rearranged to accommodate this change.

Specific Comment 2:

Section 1.1, Purpose, Pages 1 and 2: The Tech Memo should be revised for clarity, as follows:

a. Text on Page 1 refers to "technology-aided surface MEC removal;" however, the DoD Explosives Safety Regulation 6055-09 generally defines a technology-aided surface removal as the removal of munitions (e.g., UXO, DMM,) on the surface (i.e., the top of the soil layer) only, in which the detection process is primarily performed visually, but is augmented by technology aids (e.g., hand-held magnetometers or metal detectors) because vegetation, the weathering of UXO, DMM, or chemical warfare material (CWM), or other factors make visual detection difficult. Please revise the Tech Memo, as appropriate, to use the established term (i.e., technology-aided surface removal).

b. Text on Page 1 also refers to "large projectiles" but does not indicate the types of munitions that are considered large projectiles. Please revise the Tech Memo to identify the munitions by type that are considered large projectiles.

c. Text on Page 2 refers to a summary of MEC and munitions debris (MD) "removed from Unit 5 . . . activities;" however, the Tech Memo does not indicate that MD, with the exception of MD that are solid metal fragments that do not realistically present an explosive hazard, must be inspected to document its explosives safety status. Additionally, during a munitions response, MD and other material (e.g., range-related debris) that is determined to pose an explosive hazard must be categorized and destroyed as MEC. Please revise the Tech Memo to clarify the disposition of MD.

Response to Specific Comment 2:
Comments acknowledged.

a. The term "technology-aided surface MEC removal" is used in this document to be consistent with its usage in prior documents. For example, on page one, the term is contained within the quote from the Track 3 ROD ("…technology-aided surface MEC removal…").

b. As described in Section 8.0, to address the low-likelihood (but high-impact) risk to prescribed burn personnel from 8-inch projectiles that may be present in shallow

subsurface, DGM data assessment was performed and a list of subsurface anomalies that could represent large projectiles at 1- and 2-foot depths has been developed. For the purpose of this data assessment the term "large projectiles" refers to 8-inch and 155mm projectiles. Text has been added to Section 8.0 to note "8-inch/155mm" along with the term. A full discussion of the data assessment can be found in *Appendix E, DGM Data Assessment and Anomaly List Development*.

c. As referenced in the SSWP Addendum and described in the MEC QAPP, recovered munitions items were identified and managed in accordance with *KEMRON SOP – MEC and MPPEH Management, UXO SOP 6*. As described in the SOP, MD has been inspected and then placed into a locked container. Final certification and offsite shipment for recycling are pending completion of the additional work identified for Unit 5 in this technical memorandum. The text in Section 4.0 has been modified and the sentence now reads: "In accordance with the standard procedures described in the MEC QAPP (Kemron, 2016), MD was inspected by a UXO team (UXO Tech III and Tech II) under the supervision of the SUXOS and secured. After completing the additional work in Unit 5, MD will be certified and transported off- site for disposal."

Specific Comment 3:

Section 2.1., Vegetation Clearance, Page 5: The term material potentially presenting an explosive hazard [MPPEH] is used incorrectly. The Tech Memo indicates, "On November 19, 2021, during mechanical mastication, the unexploded ordnance (UXO) escort encountered a MPPEH item (Projectile, 8-inch, high explosive, M106 Series)." While every munition encountered during a munitions response would be considered MPPEH, MPPEH is not the focus of a munitions response. MPPEH is a broad term encompassing a myriad of materials (e.g., used and unused munitions, munitions containers, piping from munitions production facilities). By definition, the focus of a munitions response is the removal of munitions (e.g., UXO, DMM). Although MPPEH may be encountered during a munitions response, it is not the focus of such. Please review the Tech Memo's use of MPPEH and replace MPPEH with munitions, as appropriate.

Response to Specific Comment 3:
Comment acknowledged. The use of MPPEH is consistent with previous reports. The item was considered MPPEH when it was initially encountered, and was further evaluated by appropriately qualified UXO personnel and determined to be MEC after a consolidated detonation. The sentence was modified for clarity to: "…encountered a material potentially presenting an explosive hazard (MPPEH) item which was later determined by UXO qualified personnel to be MEC after a consolidated detonation (Projectile, 8-inch, high explosive, M106 Series)."

RESPONSES TO COMMENTS

Specific Comment 4:

Section 2.4, Geophysical Anomaly Investigation in Pond 21, Page 6. The Tech Memo incorrectly states that "A DGM [Digital Geophysical Mapping] survey . . . to identify anomalies potentially representing MEC items in the subsurface of Pond 21." A DGM survey does not identify anomalies that are most likely MEC, but ones that are most likely munitions. Upon investigation, such anomalies may be found to be a munition that qualified personnel determine to be MEC. Please revise the Tech Memo to use the correct terminology.

Response to Specific Comment 4:

Comment acknowledged. As noted in the comment, the sentence being referenced reads "…to identify anomalies potentially representing MEC items…." Targets were selected from the SUM channel (arithmetic sum of EM61 channels 1-4) with a response threshold of 14 mV, and were investigated. None of the materials recovered from the Pond 21 investigation was determined to be MEC.

Specific Comment 5:

Section 8.0, Recommendations for Additional Subsurface MEC Remediation, **Pages 14-15**. The discussion regarding the potential presence of sensitive munitions is unclear. The Tech Memo indicates, "Three UXO items containing sensitive fuzes . . . were encountered during surface removal just east of Forrestal Road. The DGM results indicate a low density of anomalies in the vicinity of the three items. Munitions debris associated with sensitive fuze-type munitions was removed from one grid in Unit 5 (less than one pound in Grid A2H0B5, several grids apart from the locations of the UXO items). Based on these findings and historical information, there is no indication of a range for munitions with sensitive fuzes in Unit 5." Although the Tech Memo indicates the data do not support the presence of a range used for sensitive munitions (e.g., 40 mm), it does not explain the presence of the sensitive munitions recovered. Please revise the Tech Memo to explain the presence of sensitive munitions.

Response to Specific Comment 5:
Historical use of munitions with sensitive fuzes (e.g., projectile, 40 mm, high explosive, M383) at ranges within Unit 5 is not documented. While extemporaneous use of these munitions could have occurred, the low number of recovered 40 mm sensitive fuze-type MEC within Unit 5, along with small quantity of related debris and low density of subsurface anomalies, indicate that ranges within Unit 5 were not dedicated or used routinely as sensitive fuze-type 40 mm ranges.

RESPONSES TO COMMENTS

Document:	MRS-BLM Unit 05 Munitions and Explosives of Concern (MEC) Remedial Action Technical Memorandum, February 2023
Commenting Organization:	The Department of Toxic Substances Control (DTSC)
Name:	Brett Leary
Date of Comments:	March 20, 2023

Comment:

DTSC Program Management and Engineering and Special Projects reviewed the Tech Memo and have no comments on the document.

Response:

No response is necessary.

RESPONSES TO COMMENTS

Document:	MRS-BLM Unit 05 Munitions and Explosives of Concern (MEC) Remedial Action Technical Memorandum, February 2023
Commenting Organization:	Fort Ord Community Advisory Group (FOCAG)
Name:	Mike Weaver
Date of Comments:	March 20, 2023

Comment 1:

"We note this MRS-BLM Unit 5 parcel was recently cleared of grass and brush by vegetation mastication in Nov-Dec 2021 for purposes of inspecting the site for munitions. The FOCAG recalls being told during Community Involvement Workshop meetings (C. I. M.) years ago that it was necessary to burn the site prior to clearance work because it was too dangerous to manually clear it. It was feared the workers could be accidentally blown up. Now we understand that, currently, the new intent is to burn it later, following this manual clearance effort, to enable the native plants and critters to return and thrive. Some of these are listed as endangered. The story the public is told seems to have changed."

"When the BRAC representatives were asked years ago by community members about these endangered species like the Black Legless Lizard, and California Tiger Salamander, as to how they could survive a prescribed burn…..the answer from the BRAC representative was that the small critters somehow managed to get out of the way of the flames."

Response to Comment 1:

Under the Track 3 Record of Decision (Administrative Record [AR]# OE-0647), prescribed burning has been selected as the primary method to clear vegetation in habitat reserve containing Central Maritime Chaparral to provide access to conduct munitions and explosives of concern (MEC) removals. In locations where prescribed burning cannot be accomplished safely, the vegetation is cut, in coordination with the U.S. Fish & Wildlife Service (USFWS). Large projectiles were not expected in Unit 5, however, due to a discovery of a piece of 8-inch projectile (munitions debris) in a near-by fuel break, the remedial action used the 8-inch projectile as the reference munition for exclusion zones. The *Addendum to Final Work Plan, MRS-BLM Units 1-5, Munitions and Explosives of Concern Removal, Former Fort Ord, California, Unit 5* (Unit 5 SSWP Addendum; AR# OE-0626U) describes that due to the potential presence of large high explosive (HE) projectiles on the ground surface in Unit 5 and the close proximity of Unit 5 to populated areas, the Army in coordination with USFWS deemed prescribed burning prior to surface MEC removal

unsafe. Therefore, vegetation within Unit 5 was removed manually and mechanically instead of through prescribed burning.

Unit 5 is required to be burned in the future to encourage the recovery of the habitat. The effects of prescribed burning have been evaluated in the feasibility study that led to the Track 3 Record of Decision. Wildlife resources have adapted to periodic fires within chaparral habitat and benefit from the temporary changes to their habitat. The USFWS supports the Habitat Management Plan for the former Fort Ord, which emphasizes the positive impacts of burning on special status species and indicates plant species and wildlife at the former Fort Ord are not adversely affected.

Comment 2:

"On page 2, Section 1.2, labeled, Site Location, the first paragraph, it says, 'The Army will coordinate the Technical Memorandum with the future landowner identified at the time of its preparation.'
The FOCAG asks, isn't the current and future landowner the Bureau of Land Management (BLM)? Why not say so? It is in the Fort Ord National Monument. It should say so. This a technical memorandum?"

"We read that Unit 5 is approximately 130-acres in the 6,560-acres southern part of the Multi-Range Area (MRA). The FOCAG knows Unit 5 is in close proximity to South Boundary Road. South Boundary Road is a sometimes public road used for access and egress to the nearby Monterey County Laguna Seca Recreation Area and Racetrack.
Figure 2 in this document shows Forrestal Road connected to S. Boundary Rd crossing north across the center of Unit 4, and then continuing through the center of Unit 5, and connecting to east-west Darwin Rd., and passing immediately by HA29 on the southern portion of this Unit 5. The Technical Memorandum should identify real or potential vehicular roads and connecting roads across the MRA."

Response to Comment 2:

The reference to "future landowner" occurs in the text quoting the Track 3 Record of Decision. The Impact Area Munitions Response Area is within the portion of the Fort Ord National Monument that has not been transferred. It is identified for transfer to the Bureau of Land Management (BLM).

Figure 2 displays roads that are relevant to the Unit 5 remedial action. The regularly-maintained fuel break roads within the Impact Area Munitions Response Area are identified on Figure 1. All roads within the Impact Area Munitions Response Area are used by authorized personnel only, and there is no public access to the Impact Area Munitions Response Area.

Comment 3:

"Section 2.1 Vegetation Clearance states biological monitoring of Unit 5 was provided by independent contractor Denise Duffy and Associates. Where can the FOCAG obtain a copy of this biological monitoring report? Is there a copy in the Fort Ord Administrative Record? Shouldn't a copy of the contract, and the report, be included in this Technical Memorandum? We think EPA may also wish to see it."

Response to Comment 3:

Comment acknowledged. The biological monitoring report has been issued separately and is available in the Fort Ord Administrative Record as AR# BW-2935.

Comment 4:

"Section 2.2 Technology-Aided Surface Munitions and Explosives of Concern Removal.
This references ' .... the 100' X 100' sample grid.' Figure 2 and Figure 3 in this document show a yellow highlighted 100' X 100' Sample Grid toward the center right portion of Unit 5. The small print on Figure 2 identifies this yellow highlighted 100'X100' as "OE Sampling, 100% (mag and dig. 4FT) 1998 (USA) AR#OE-0287A.
There are some very dangerous munitions hereabouts.
We could not find clear justification, or process, for selecting this particular 100' X 100' Grid in 1998. This Technical Memorandum should spell this out. The FOCAG has brought this up before regarding claims that an area has been completely sampled utilizing grids, however, it turns out to be a sample of a sample that actually gets a deeper investigation, in this case 4 feet deep. This creates problems in officially declaring an area cleared because a) some artillery munitions have a delayed fuse and are designed to travel below ground upon impact prior to the fuse going off, and b) Fort Ord trained with munitions that can go below 4 feet on impact, such as the 75mm High Explosive."

Response to Comment 4:

Comments acknowledged. In 1998, USA Environmental, Inc. conducted a grid sampling in areas within the Impact Area outside of the firing lines. This action was intended to gather characterization data for the Impact Area. This work is reported in the *Final After Action Report 100% Grid Sampling Inland Range Contract Former Ford Ord, California Site OE-15B* (AR# OE-0287A). One of the sampling grids is located within Unit 5. It is shown on Figure 2 as a part of the previous munitions responses conducted in Unit 5. In accordance with the Track 3 Record of Decision and the Unit 5 SSWP Addendum, surface MEC removal and subsurface removal in selected areas have been conducted in Unit 5.

Comment 5:

“2.3 Digital Geophysical Mapping Survey.
This section mentions "target boxes" one time. It seems target boxes need a thorough explanation, as to the reason for their specific locations, and what munitions may have been aimed at them. This is a Technical Memorandum right? We did find some helpful online information regarding target boxes, from the Army at Huntsville Alabama. Here is a link for ‘Stationary Infantry Targets’
https://www.hnc.usace.army.mil/Portals/65/docs/Directorates/lSPM/RTLP/PDFs/Down Range Features/Stationary Infantry Target (SIT) - Aug2017.pdf?
ver=2017-09-25-114915-1 27”

Response to Comment 5:

The usage of target boxes discovered within Unit 5 is not well documented. Their location within the estimated range fan for Range 30 would indicate they were part of that range (as shown on Figures 2 and 3). No MEC items were found within the vicinity of the target boxes or within the estimated range fan.

Comment 6:

“re: page 9, 4.0 Summary of MEC/MD Removed
This is interesting. The FOCAG reads that 4,346 lbs. of MD were removed from Site 5, additionally range related debris and other debris removed amounted to 3,019 lbs., as part of the MEC remediation activities.
The FOCAG finds that 4,346 lbs. plus 3,019 lbs. totals 7,365 lbs. of metal, etc. Unit 5 is approximately 130 acres in size. This equals an astounding 56.65 lbs. per acre average.
The FOCAG asks, Is this number about average for the Impact Area? This MRA equals 6,560 acres in the southwest portion of former Fort Ord. Are there some comparisons in other areas? A second question here is; How much of the 7,365 lbs. was lead?”

Response to Comment 6:

Comment acknowledged. The quantities of munitions debris (MD) and range-related debris (RRD) removed from the Unit 5 remedial action are relatively small compared to MD and RRD recovered during remedial actions in other units within the Impact Area Munitions Response Area. Lead bullets are not typically removed during MEC remedial action under the Track 3 Record of Decision. Potential soil contamination from small arms and military munitions ranges is addressed under the Basewide Range Assessment program and *Record of Decision Amendment, Site 39, Former Fort Ord, California* (AR# RI-041E). The results of BRA evaluation of Unit 5 have been reported separately, in *Site Evaluation Results, Basewide Range Assessment Investigation, Unit 5* (AR# BW-2929).

Comment 7:

“re: page 10, 5.0 Digital Geophysical Mapping Evaluation
Regarding the stands of uncut trees adjacent to Pond 31. Were these trees even here circa 1992 when Fort Ord closed down? This was over 30 years ago. It seems unlikely with all the shelling going on in Unit 5. The total of 3.2 acres of data gaps has the potential to contain 181.28 lbs., using the average of 56.65 lbs. per acre as calculated above (page 3, #6).”

“We are informed that a total of 95 targets were identified with response characteristics consistent with large munitions item within two feet of the surface.
The FOCAG asks if there is an estimate of how many 155mm projectiles may be more than two feet below the surface? How much ordnance may have been buried 6-10 feet below ground in burial pits?”

Response to Comment 7:

The 3.2 acres of data gaps refers to digital geophysical mapping (DGM) data gaps. Surface removal was conducted in these areas. MD/RRD was collected and documented during surface removal, and has been accounted for in the unit totals.

The rationale for the DGM data evaluation related to large projectiles (155mm/8-inch) is described in Appendix E - *MRS-BLM Unit 5 MEC Remedial Action DGM Data Assessment and Anomaly List Development.* The presence and quantity of large projectiles in the subsurface is unknown. The DGM data were evaluated to identify subsurface anomalies within Unit 5 that are potentially related to large, near-surface ordnance items which may pose a risk to ground and air personnel during future prescribed burns in Unit 5. This Technical Memorandum (Section 10.0) describes that the identified anomalies will be further evaluated for the need for intrusive investigation, and selected anomalies will be investigated.

Comment 8:

“Regarding Figures 2,3,4,5 in this document, depicting area "HA29".
HA29 needs some explanation in this Technical Memorandum
It is a narrow range used for the following; Machine Gun Assault Range, Squad Battle Drill and Assault Range, 10m Machine Gun, 25m Zero, M-3 Machine Gun Impact Area
FOCAG question; How much lead is out there in Unit 5? What to do with all the lead fragments? Shouldn't this issue be addressed in a Technical Memorandum?”

Response to Comment 8:

Historical Area 29 (HA-29) is shown on the figures as a part of the previous munitions responses conducted in Unit 5. As noted in the Unit 5 SSWP Addendum, Shaw conducted a DGM survey

and intrusive investigation of anomalies after soil remediation in HA-29. This work is reported in the *Final Site Remedial Action Completion Report, Site 39 Inland Ranges Habitat Reserve, Former Fort Ord, California.* (RI-047C). Lead was a contaminant of concern (COC) in soil at HA-29.

After the surface removal was conducted, as part of the Basewide Range Assessment program, Unit 5 was evaluated for the potential for soil contamination. This evaluation is reported in a document titled *Site Evaluation Results, Basewide Range Assessment Investigation, Unit 5* (AR# BW-2929).

Comment 9:

“re: page 13, 7.0 Observations of Evidence of Potential Soil Contamination
The one paragraph below the subject title provides an incomplete explanation of "target boxes" found on Unit 5.
Additionally, no explanation is provided about what the potential soil contamination is, may contain, or, how much there may be. Is it lead?
This is a Technical Memorandum, a better explanation and risk analysis should be required.”

Response to Comment 9:

As described in the response to Comment 8, the evaluation of Unit 5 for the potential presence of soil contamination has been reported separately and is not part of the scope of this report.

Comment 10:

“re: pp. 14-15 8.0 Recommendations for Additional Subsurface MEC Remediation
The FOCAG referenced Appendix D of this document to learn that BLM's plans are to fill the gullies, reshape the area, eliminate the base rocks on the road and cross rip the adjoining area to a depth of 18 inches, then replant and cast straw.”

“The FOCAG finds this proposed grading and cross ripping to be dangerous. However, filling the gullies is not. The recommendation is to just fill the gullies and sow seeds about during appropriate times of the year.”

Response to Comment 10:

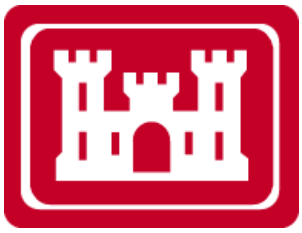
A summary of Army-BLM joint inspection of Unit 5, conducted in December 2022, is provided in Appendix D. While previous (2012) observations noted the possible need for erosion repairs at some locations, the most recent visit noted that maintenance and repairs that had been made over the years were successful in addressing the erosion issues. The joint inspection resulted in one recommendation, to fill the former target boxes with nearby native soil or mulch.

Appendix B

FINAL
DGM SURVEY OF VERNAL POND 21
at
FORMER FORT ORD
MONTEREY, CALIFORNIA

Prepared by:

U.S. Army Corps of Engineers, Sacramento District



March 2021

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Appendix A: Target List

1.0 Introduction

This report describes the digital geophysical mapping (DGM) survey performed by the United State Army Corps of Engineers (USACE) to support removal of munitions and explosives of concern (MEC) items within Vernal Pond 21 located in Unit 5 of the Impact Area Munitions Response Area (MRA) at the former Fort Ord, California.

2.0 Objective

Wetland monitoring requires that biologists enter the inundated areas when the visibility of the surface is obstructed by water and there is a potential for subsurface disturbance. The *Final Record of Decision Impact Area Munitions Response Area Track 3 Munitions Response Site Former Fort Ord, California* [Track 3 ROD; United States Department of the Army (Army), 2008] requires construction support for ground-disturbing or intrusive activities. Due to the lack of visibility in inundated areas, construction support and anomaly avoidance are impractical to support access to ponds during wet periods.

The objective of the DGM survey in Vernal Pond 21 was to map subsurface anomalies within the footprint of the pond that potentially represent MEC and evaluate whether to perform a subsurface removal to make Vernal Pond 21 safe for biological surveys.

3.0 Background

The Impact Area MRA at the former Fort Ord, California contains vernal ponds that frequently fill with water during the winter months. Vernal ponds on the former Fort Ord provide breeding habitat for the California fairy shrimp and the federally and state threated California tiger salamander. Monitoring for these species and other biological resources requires that biologists enter the inundates areas when the visibility of the surface is obstructed by water and there is a potential for subsurface disturbance.

In the fall of 2020, Unit 5 was being considered for remedial action pending availability of funding. The pond was sufficiently dry, therefore, to take advantage of the dry conditions USACE

conducted a DGM survey in Vernal Pond 21. The DGM data would be evaluated as part of the work plan development for the Unit 5 remedial action.

4.0 Site Location

Vernal Pond 21 is located within Unit 5 in the southern portion of the Impact Area MRA, south of Darwin Road. Figure 1 shows the location of Vernal Pond 21.

5.0 Digital Geophysical Mapping

The DGM survey of Vernal Pond 21 was conducted from 11/18/2020-11/19/2020. The investigation area was delineated using the surface_water_body_area GIS layer, which is based on the historical maximum extent of the vernal pool. The DGM survey was conducted with a Leica RTK GPS antenna coupled to a person-portable single-coil EM61 to minimize disturbance to the vernal pond habitat. Data collection, processing, and management followed technical procedures described in the Quality Assurance Project Plan (QAPP; KEMRON 2016). Surface removal in Vernal Pond 21 had not been conducted prior to the DGM survey, and USACE personnel conducting the DGM survey were escorted by the USACE Ordnance and Explosive Safety Specialist (OESS) to properly implement anomaly avoidance procedures. Figure 2 shows the results of the DGM survey. Data gaps visible on Figure 2 are the result of obstacles preventing access to DGM surveys such as vegetation.

5.1 Data Collection Procedures

DGM system functionality was demonstrated by performance of daily functional tests, the results of which were verified against project measurement quality objectives (MQOs) as described in the QAPP (KEMRON 2016). The following instrument tests were performed daily:

- Static Background Test
- Static Spike Test
- Personnel Test
- Cable Shake Test
- Instrument Verification Strip (conducted twice daily)

Prior to daily functional tests the EM61 unit was allowed to warm up for 15 minutes. The Unit 28 instrument verification strip (IVS) was used for daily testing. Prior to conducting the initial IVS tests and DGM survey in Pond 21, the IVS strip was surveyed 10 times with the person-portable EM61 to establish the expected response of the IVS items. The peak responses for each of the four IVS items were averaged over the 10 surveys to establish the expected response. Results of the twice-daily IVS tests are shown on Figures 5-12.

The DGM survey of Vernal Pond 21 was conducted with an EM61 utilizing the four time-gate readings from the bottom coil. Readings were sampled at a minimum rate of 10 readings per second. Leica GPS readings were logged at a rate of 1 reading per second. A single EM61-MK2A unit was mounted on wheels and manually pulled to survey the footprint of the pond. The DGM survey for the project area was collected with Category B MQOs which provide sufficient data quality to evaluate whether to perform a subsurface removal in the vernal pond.

5.2 Data Processing

DGM data were processed using Geosoft's Oasis Montaj and vendor-supplied software. Geosoft Oasis Montaj processing included several steps:

1. Transforming raw data to American Standard Code for Information Interchange (ASCII) xyz files: Using vendor-supplied software, data were converted form the native file format to ASCII data files suitable for import into Oasis Montaj.
2. Initial data review: Once raw .xyz files were imported into Oasis Montaj, the coordinates were converted to the project coordinate system. Data coverage and quality were assessed by the data processors.
3. Correcting for instrument latency: DGM data were shifted to account for the time lag inherent in the data logging system.
4. Leveling data: Data were leveled to the same background values removing the effects of instrument drift. The leveled data were added together to create the 4-channel sum.

Data processing procedures remained consistent for the project area.

5.3 Measurement Quality Objectives

The DGM survey for Vernal Pond 21 were conducted with Category B MQOs based on the post-DGM activities planned for the site.

The following items were monitored throughout the project according to MQOs specified in the Final QAPP (KEMRON, 2016)

1. Background noise
2. Mean speed
3. Along-track spacing
4. Across-track spacing
5. Instrument latency corrections
6. Data leveling
7. Systematic noise
8. Anomaly selection
9. Positioning errors
10. Known location items
11. Pseudo-blind QA seeds

All data collected in Vernal Pond 21 met established MQOs with the exception for the Category B across-track spacing (95% coverage at 2.5 ft. and 98% at 3 ft.). DGM data collected in Vernal Pond 21 achieved 93.88% coverage at 2.5 ft. and 97.91% coverage at 3 ft. (Figures 3 and 4). One large data gap is apparent in the western portion of Vernal Pond 21.

The DGM survey was conducted over two days. This data gap is the result of starting the second day of data collection one line spacing too far to the west of where the first day of data collection ended. The impact and resolution of this data gap is discussed in Section 6.0 of this report.

6.0 Results and Recommendations

Figure 2 shows the results of the DGM survey. Approximately 0.06 acres of data gaps visible on Figure 2 are the result of obstacles preventing access to DGM surveys such as vegetation. Note that the area of the pond accessible to DGM survey is significantly smaller (0.85 acres) than the historical maximum inundation area used to delineate the vernal pool boundary (1.88 acres). The area between the DGM accessible boundary and the surface water boundary contains extremely

dense vegetation. One large data gap is apparent in the western portion of Vernal Pond 21. It is recommended that this data gap be surveyed with an EM61 during the target reacquisition process, in order to achieve Category B coverage metrics.

A total of 80 targets were detected in Vernal Pond 21 (Appendix A) using a target detection threshold of 14 mV (summed channels 1-4). To provide feedback on the quality of targets, the USACE geophysicist and OESS reacquired 59 of the 80 targets on 11/19/20. Targets were reacquired with RTK GPS and a Schondstedt magnetometer. The 59 targets selected for reacquisition represent all targets detected from the DGM survey collected on 11/18/20. The majority of the targets resulted in false positives and/or small audible responses from the Schondstedt magnetometer. Results of reacquisition activities are noted in Appendix A. Given the low amplitudes of the detected anomalies it is expected that the majority of the targets in Vernal Pond 21 are related to instrument bounce and/or external noise. However, the Shondstedt magnetometer has a smaller footprint than the EM61 and is only sensitive to ferrous metal, and the USACE recommends the targets be properly reacquired with RTK GPS and an EM61.

Given the small number of anomalies and low anomaly-density in Vernal Pond 21 (approximately 94 anomalies/acre) there is no cost-benefit to using advanced geophysical classification (AGC) technologies over standard intrusive investigations. Additionally, given the low amplitudes of the detected targets, it is expected that the majority of the targets are due to noise. These targets would be be resolved during the reacquisition process and will likely not require intrusive investigation, minimizing the impact to the sensitive habitat.

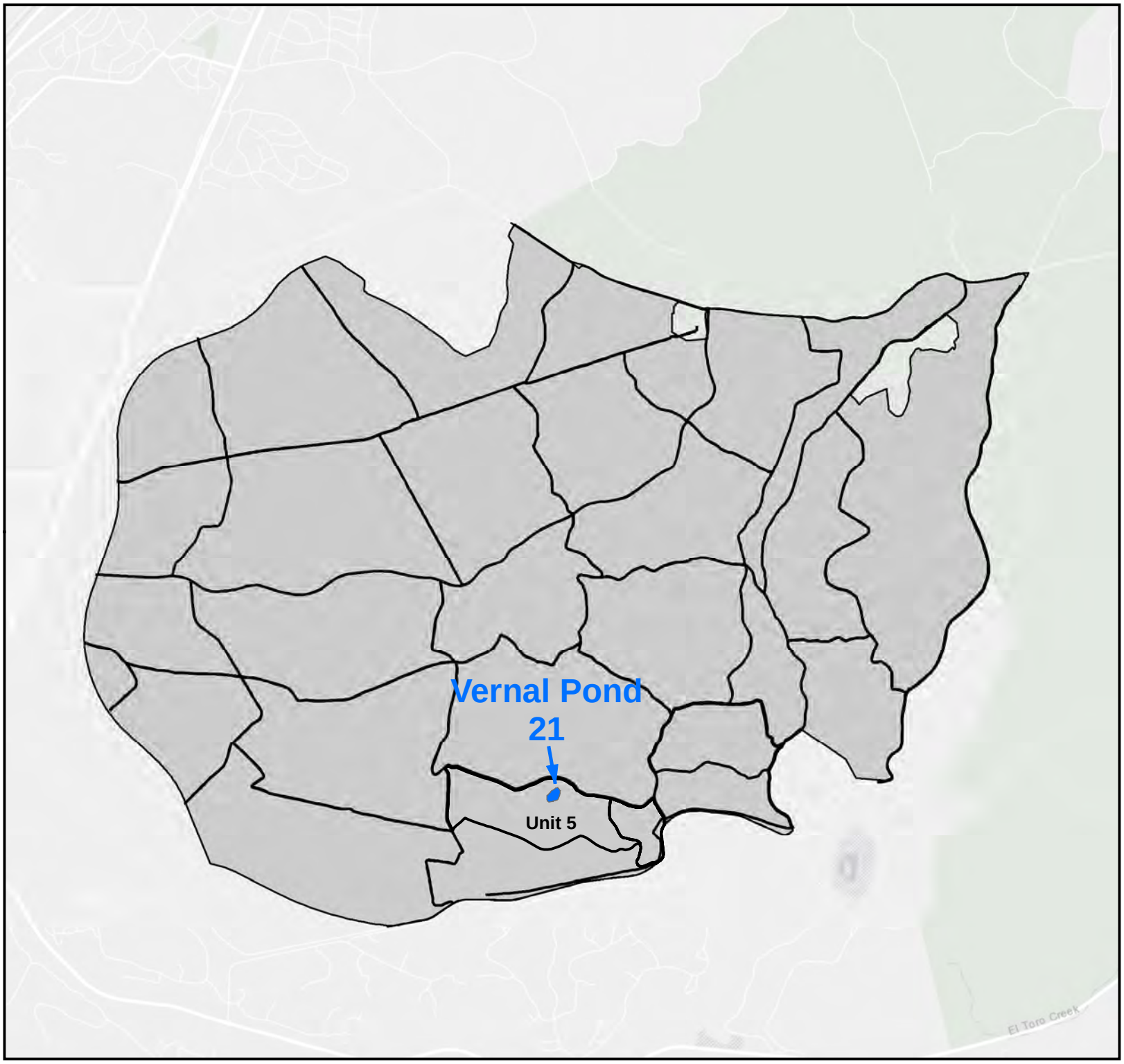
Due to the relatively small number of anomalies and the high likelihood that most of the targets are the result of noise, the USACE SPK recommends these anomalies be reacquired and intrusively investigated using established methods.

7.0 References

Army, 2008, *Final Track 3 Record of Decision, Impact Area Munitions Response Area, Track 3 Munitions Response Site, Former Fort Ord, California.* (AR# OE-0647)

KEMRON Environmental Services (KEMRON), 2016. *Final, Quality Assurance Project Plan, Former Fort Ord, California, Volume II, Appendix A, Munitions and Explosives of Concern Remedial Action.* (AR# OE-0884A)

FIGURES



Legend

- Vernal Pond 21
- Impact Area Munitions Response Boundary

N

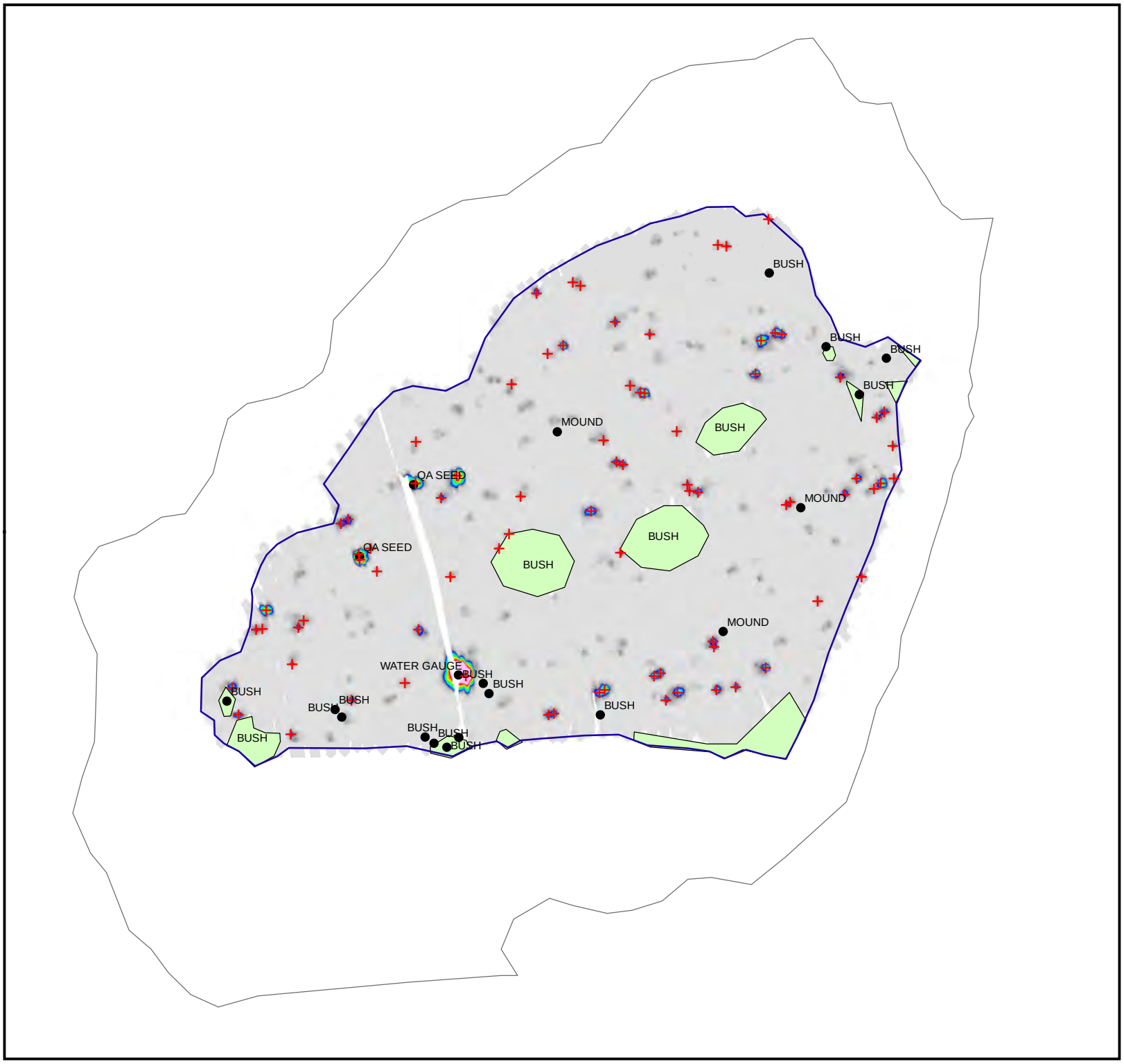
Feet

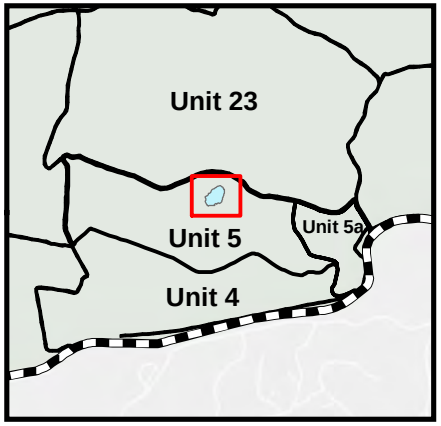
0 2,000 4,000

U.S. Army Corps of Engineers
Sacramento District

Figure 1

Vernal Pond 21
Former Fort Ord, CA





Legend

- Targets
- Pond 21 Features
- Pond 21 Boundary
- Vegetation Gaps
- Surface Water Boundary*

*Source: surface_water_body_area.shp from the Fort Ord geodatabase. Based on historical maximum extent of the vernal pool.

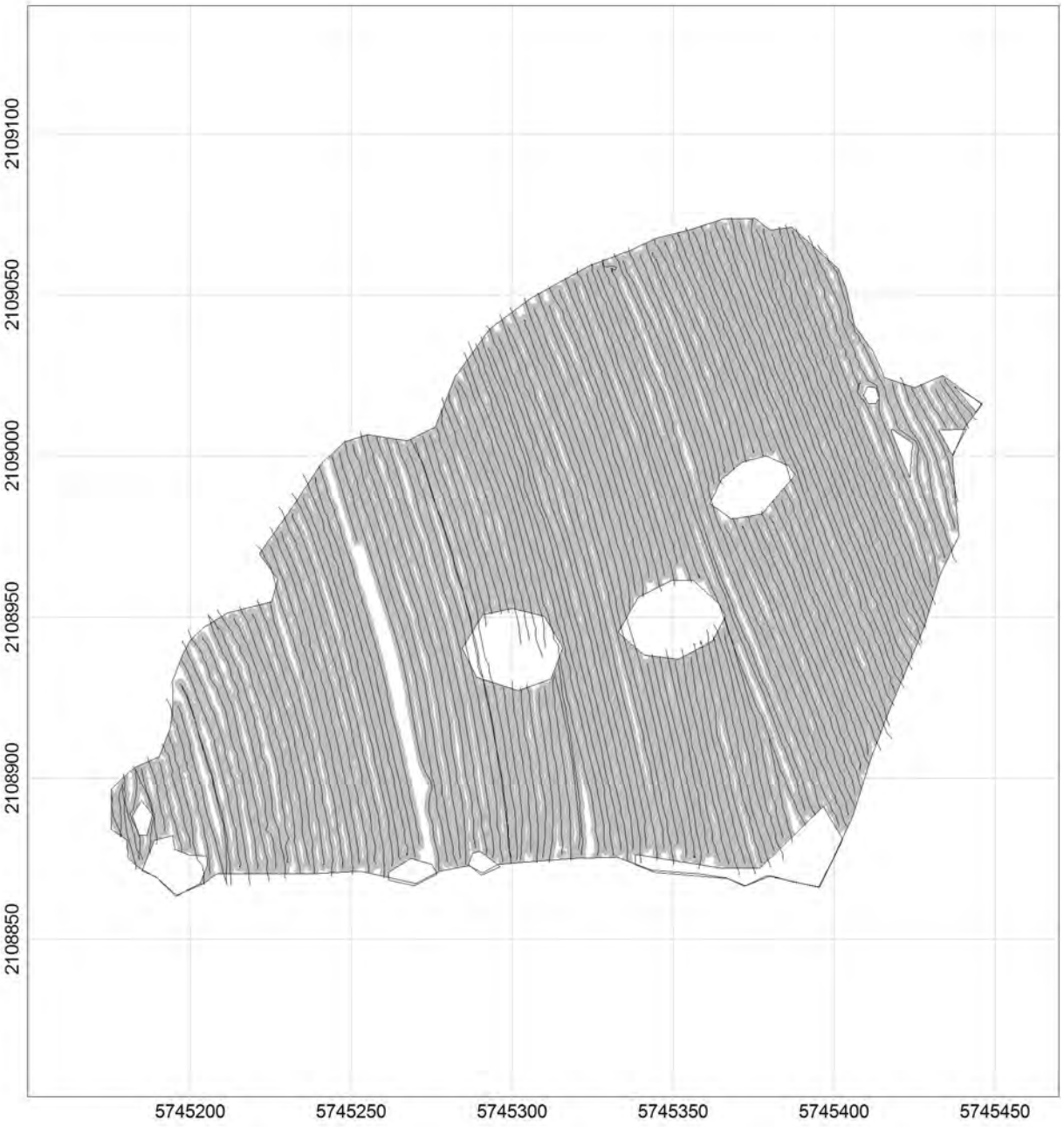
N

0 Feet 80

U.S. Army Corps of Engineers
Sacramento District

Figure 2

Vernal Pond 21 DGM Results
Former Fort Ord, CA



MAP

Footprint Coverage

LEGEND

Footprint shape: Square
Footprint size: 2.50 ftUS
Polygon thinning: 0
Area covered: 32258.02 ftUS²
Total area: 34361.16 ftUS²
Percentage covered: 93.88 %

Map Scale: Scale 1:625

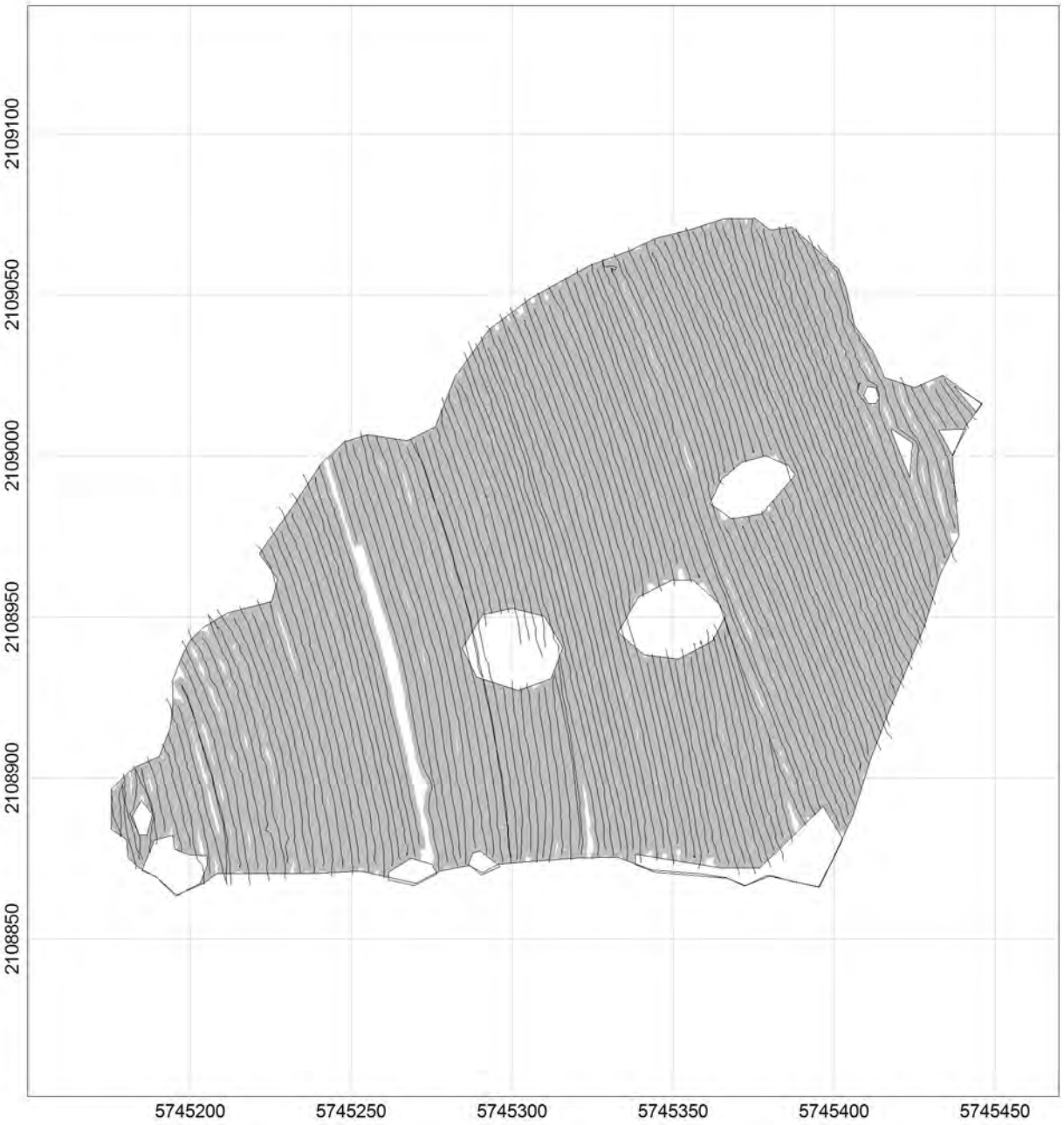
0 25
US survey foot
NAD83 / California zone 4 (ftUS)

N

Grid North: 0°0'0"
Mag North: 0°0'0"

Client:	
Project:	
Contractor:	
Created by:	**Verified by:**
Date:	**File:** Pond_21_Master_uceFootp...
Page number:	**Approved:**

Figure 3



MAP

Footprint Coverage

LEGEND

Footprint shape: Square
Footprint size: 3.00 ftUS
Polygon thinning: 0
Area covered: 33643.24 ftUS²
Total area: 34361.16 ftUS²
Percentage covered: 97.91 %

Map Scale:

Scale 1:625

0 25

US survey foot

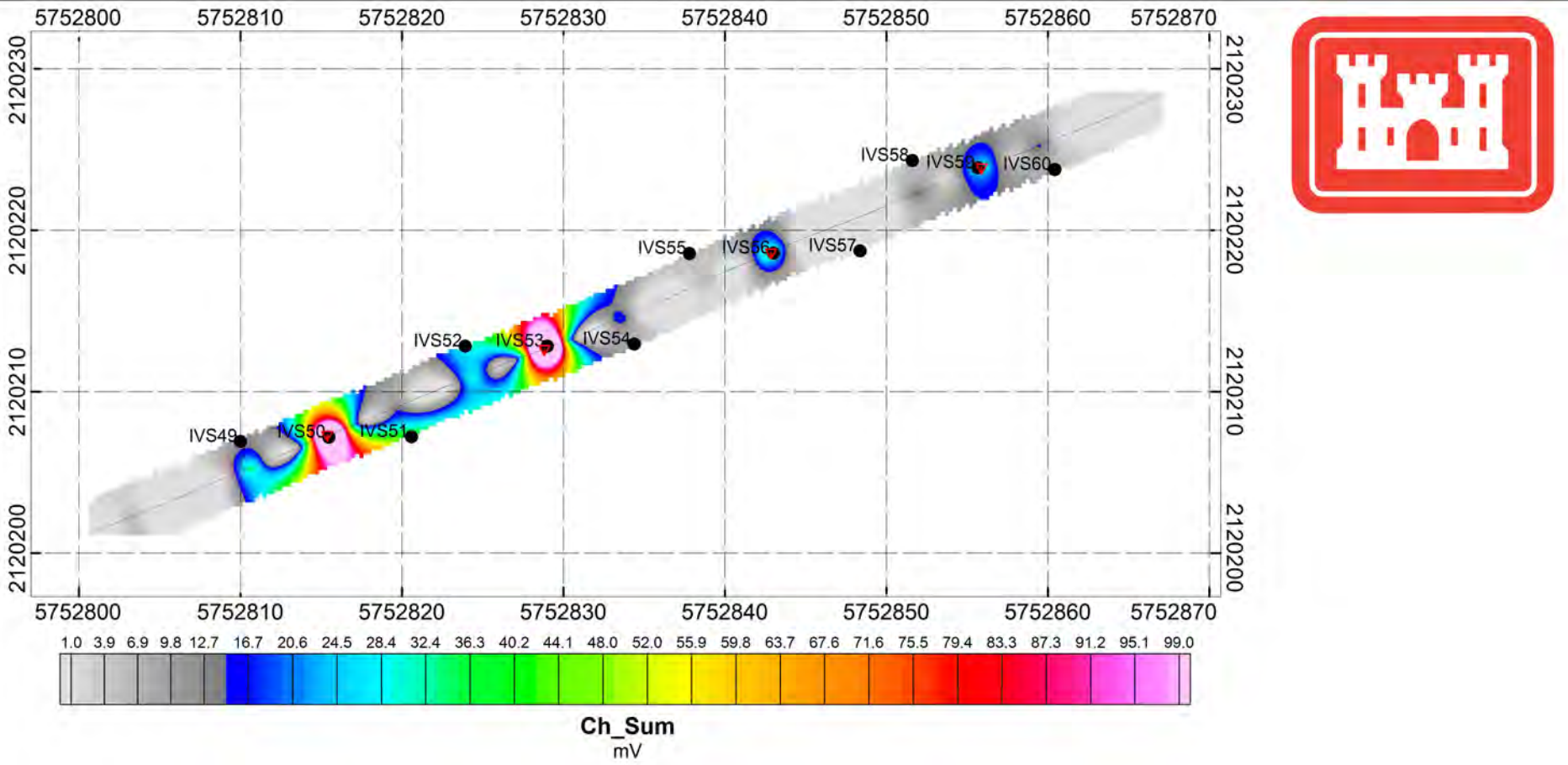
NAD83 / California zone 4 (ftUS)

N

Grid North: 0°0'0"
Mag North: 0°0'0"

Client:	
Project:	
Contractor:	
Created by:	Verified by:
Date:	File: Pond_21_Master_uceFootp...
Page number:	Approved:

Figure 4



Legend

- Peak Response Location
- Seeded ISO
- Line Path

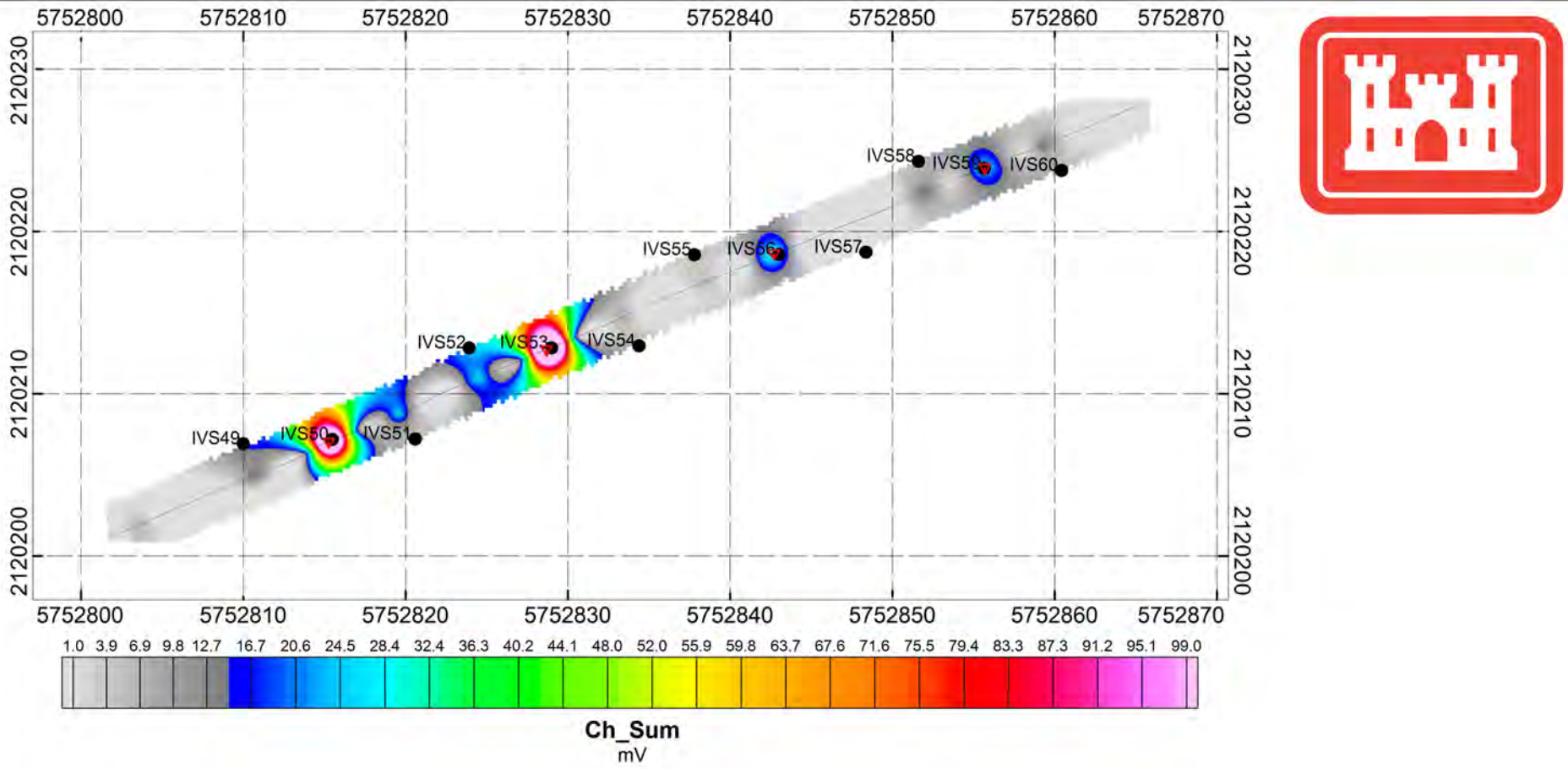
Scale 1:120

5 0 5 10

US survey foot

NAD83 / California zone 4 (ftUS)

USACE
EM61 MK2 Bottom Coil 111820IVS1 Unit 28 IVS Fort Ord, California
Figure 5 Date of Survey: 11/18/2020



Legend

- Peak Response Location
- Seeded ISO
- Line Path

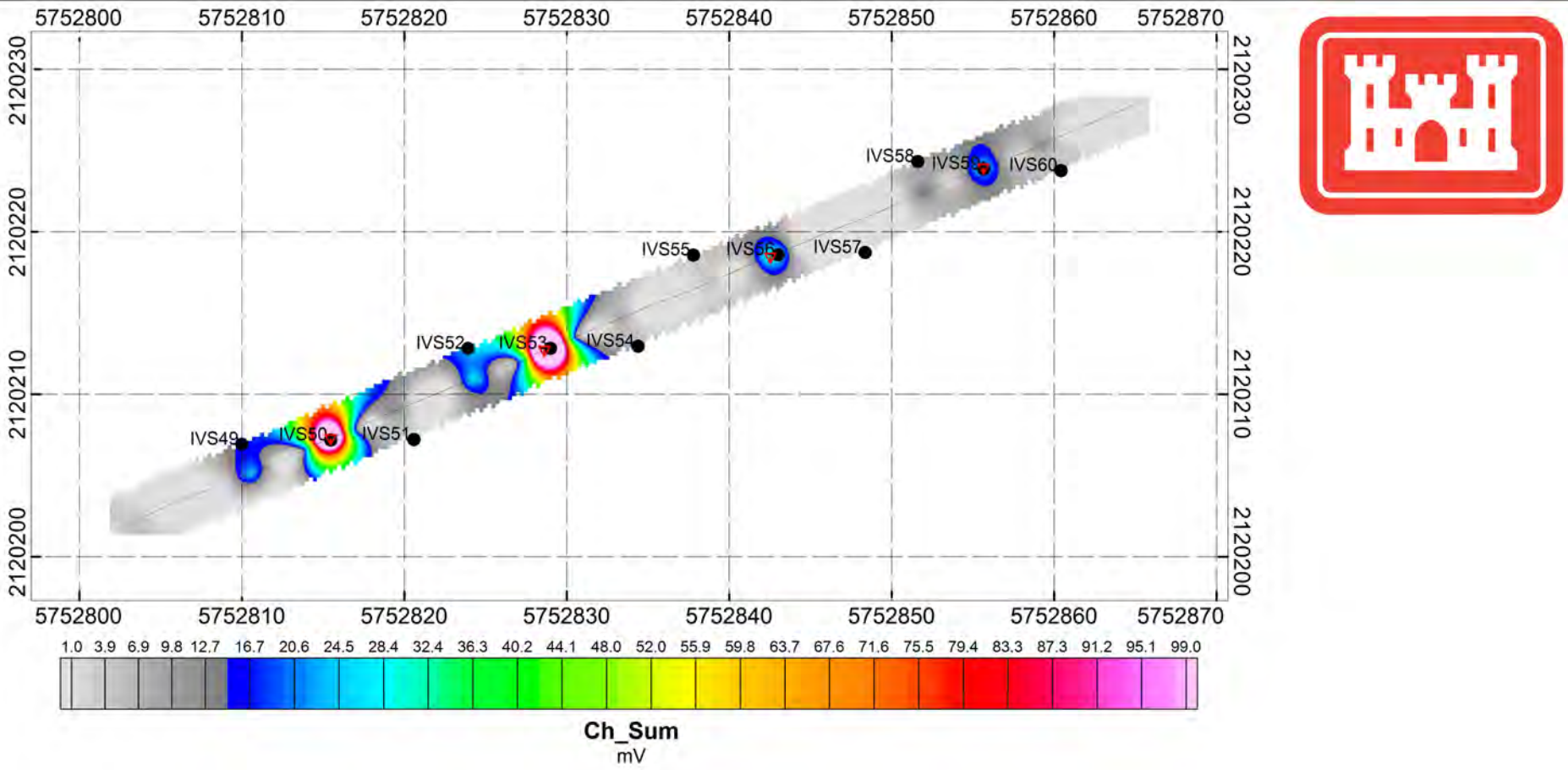
Scale 1:120

5 0 5 10

US survey foot

NAD83 / California zone 4 (ftUS)

USACE
EM61 MK2 Bottom Coil 111820IVS2 Unit 28 IVS Fort Ord, California
Figure 6 Date of Survey: 11/18/2020



Legend

- Peak Response Location
- Seeded ISO
- Line Path

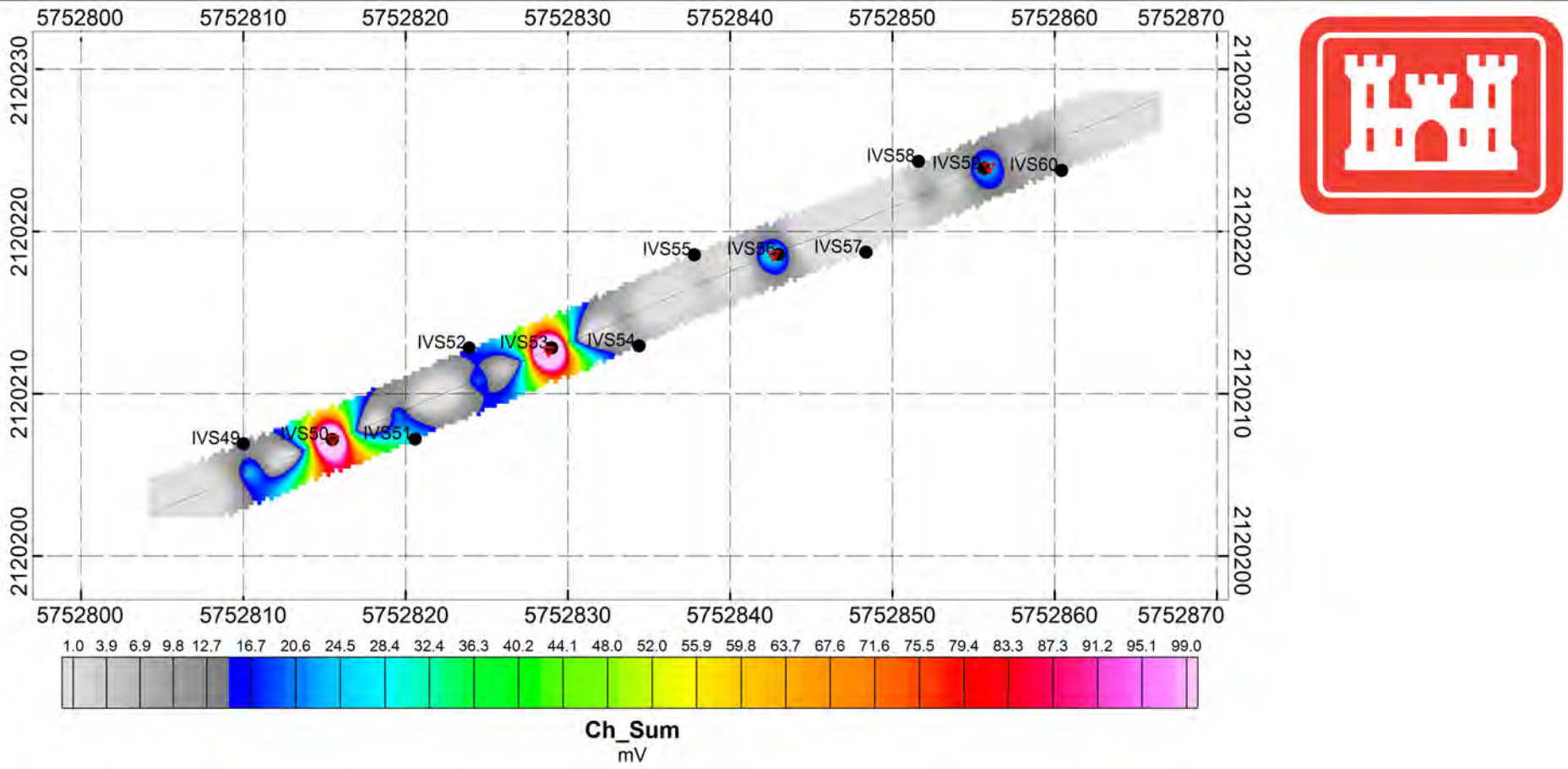
Scale 1:120

5 0 5 10

US survey foot

NAD83 / California zone 4 (ftUS)

USACE
EM61 MK2 Bottom Coil 111920IVS1 Unit 28 IVS Fort Ord, California
Figure 7 Date of Survey: 11/19/2020



Legend

- Peak Response Location
- Seeded ISO
- Line Path

Scale 1:120

5 0 5 10

US survey foot

NAD83 / California zone 4 (ftUS)

USACE
EM61 MK2 Bottom Coil 111920IVS2 Unit 28 IVS Fort Ord, California
Figure 8 Date of Survey: 11/19/2020

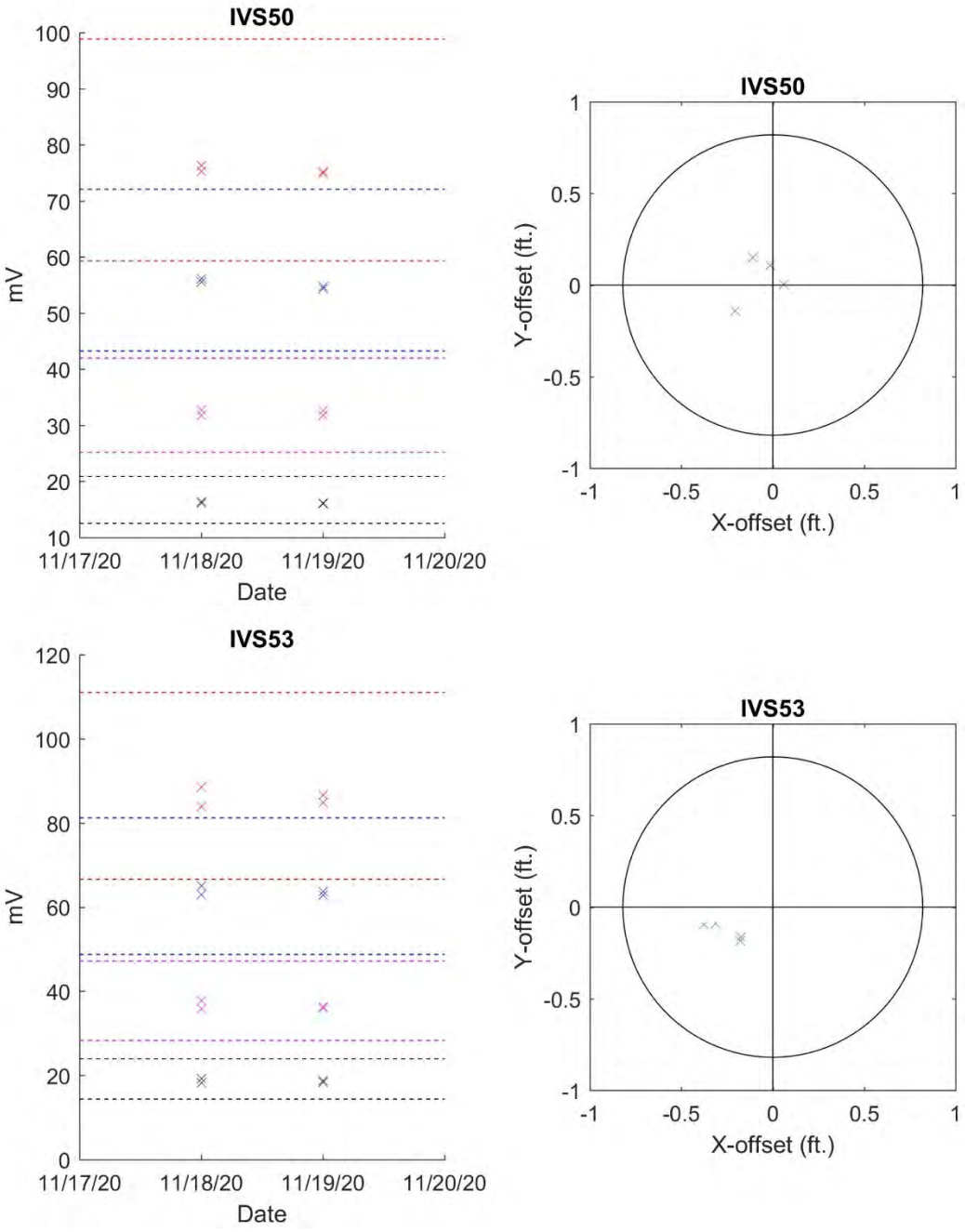


Figure 9. (Left) DGM response of IVS items IVS50 and IVS53 for each survey day. "X" symboles represent peak anomaly response for channel 1 (blue), channel 2 (red), channel 3 (magenta), and channel 4 (black). Dashed lines show the allowable variability (+/- 25% of predicted response) established in WS #22. (Right) Daily IVS positioning results for the Pond 21 DGM survey. Blue "X" symbols show the offset between the picked DGM anomaly and the IVS item ground truth. Black circle shows the maximum acceptable offset (0.82 ft.) established in WS #22.

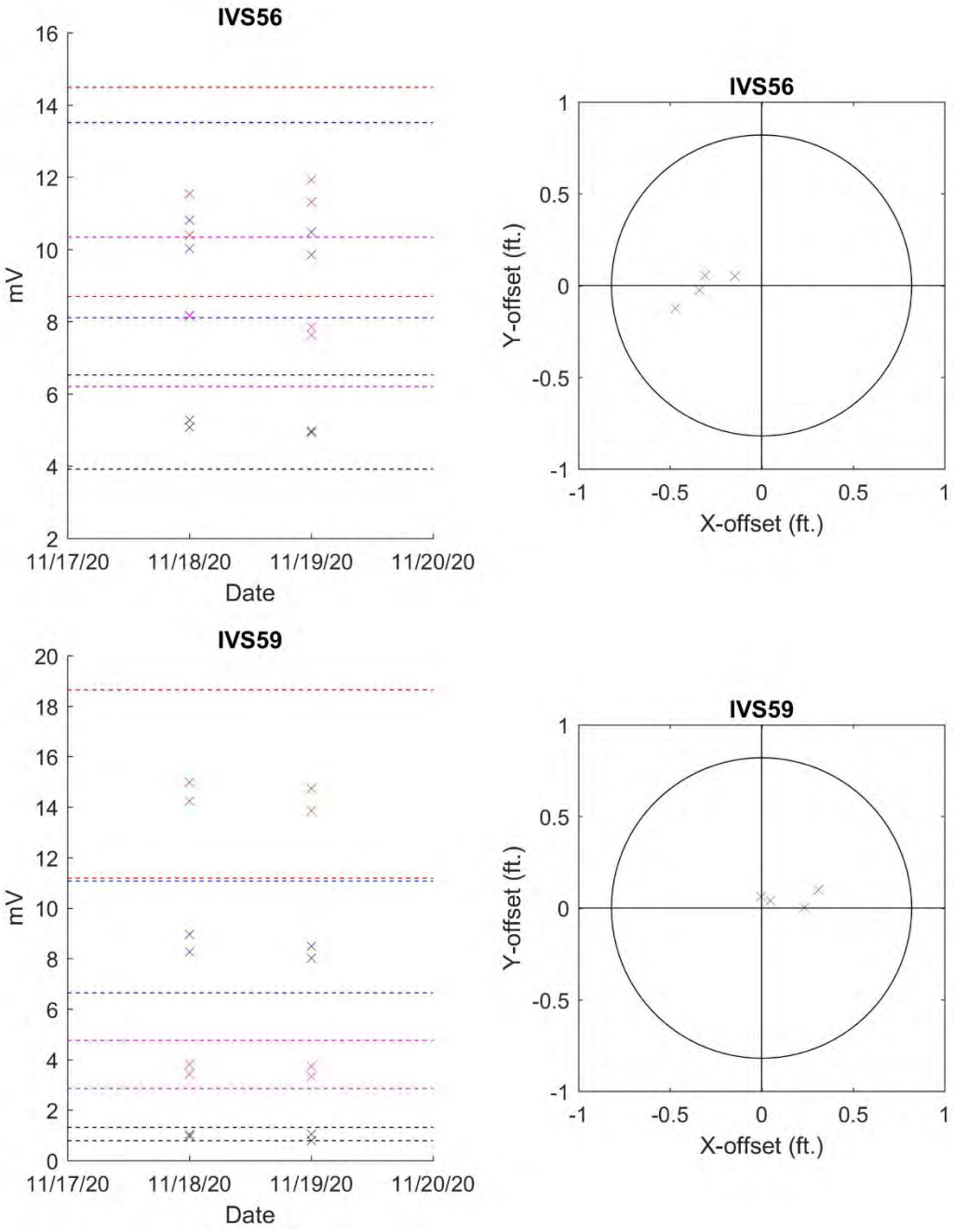


Figure 10. (Left) DGM response of IVS items IVS56 and IVS59 for each survey day. "X" symboles represent peak anomaly response for channel 1 (blue), channel 2 (red), channel 3 (magenta), and channel 4 (black). Dashed lines show the allowable variability (+/- 25% of predicted response) established in WS #22. (Right) Daily IVS positioning results for the Pond 21 DGM survey. Blue "X" symbols show the offset between the picked DGM anomaly and the IVS item ground truth. Black circle shows the maximum acceptable offset (0.82 ft.) established in WS #22.

APPENDIX A

Table 1. Pond 21 Target List						
Target_ID	**Ch_Sum**	**X**	**Y**	**Reacquired?**	**Reacquisition Result**	**Notes**
1	22.52337	5745209.25	2108875.5	N		
2	35.94183	5745189.5	2108882.75	N		
3	25.78212	5745306	2108882.75	Y	No Response	Share w/ Target 4
4	35.23734	5745308	2108883.25	Y	No Response	Share w/ Target 3
5	33.0591	5745232	2108888.5	N		
6	27.36291	5745350.25	2108888.5	Y	No Response	
7	39.51805	5745325.25	2108891.25	Y	Audible Response	Share w/ Target 9
8	35.53736	5745354.5	2108891.25	Y	Audible Response	
9	62.19446	5745327.25	2108892.25	Y	Audible Response	Share w/ Target 7
10	31.96369	5745369.25	2108892.25	Y	No Response	
11	32.60204	5745187.25	2108893	N		
12	26.96968	5745376.5	2108893.25	Y	No Response	
13	15.34701	5745252	2108894.75	N		
14	1059.215	5745275	2108897.5	Y	Water Guage	
15	47.20647	5745345.75	2108897.5	Y		Share w/ Target 16
16	33.53726	5745348.25	2108898.5	Y		Share w/ Target 15
17	46.9169	5745387.75	2108900.5	Y	No Response	
18	19.91293	5745209.75	2108902	N		
19	31.34505	5745368.25	2108908.5	Y	No Response	Share w/ Target 20
20	30.40102	5745368	2108910.5	Y	No Response	Share w/ Target 19
21	18.88302	5745196.25	2108915	N		
22	34.19489	5745257.25	2108915	N		
23	16.09922	5745198.5	2108915.25	N		
24	25.3352	5745212	2108915.75	N		
25	16.55447	5745214	2108918.25	N		
26	78.60618	5745200	2108922.25	Y	Response	
27	14.98769	5745407.25	2108925.5	Y	No Response	
28	15.16991	5745269.25	2108934.75	Y	No Response	
29	23.47376	5745423.75	2108934.75	Y	No Response	
30	15.9217	5745241.5	2108936.75	N		
31	263.7335	5745235	2108941.25	N	QA-seed	Share w/ Target 32
32	152.1463	5745234.75	2108943.25	N	QA-seed	Share w/ Target 31
33	21.96835	5745333	2108943.75	Y	No Response	
34	18.34903	5745239.25	2108945.5	N		
35	21.94485	5745287.5	2108945.5	Y	No Response	
36	18.77076	5745291.25	2108950.75	Y	No Response	
37	29.44093	5745228	2108954.75	N		
38	23.2229	5745230.75	2108956.25	N		
39	37.20987	5745322	2108959.5	Y	Audible Response	
40	26.79089	5745395.5	2108961.75	Y	No Response	
41	15.09274	5745397	2108962.75	Y	No Response	
42	22.76449	5745265.75	2108964.5	Y	No Response	
43	16.95744	5745295.5	2108965	Y	No Response	
44	26.52249	5745417.5	2108965.75	Y	No Response	

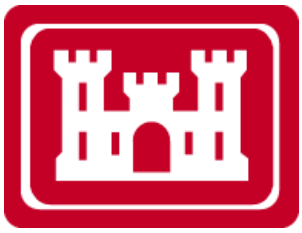
45	32.84969	5745362.25	2108966.5	Y	No Response	
46	17.54277	5745359	2108967	Y	No Response	
47	14.01403	5745428.5	2108967.75	Y	No Response	
48	19.99844	5745358.25	2108969.5	Y	No Response	
49	120.2493	5745256	2108969.75	Y	QA-seed	
50	67.46306	5745431	2108969.75	Y	Audible Response	
51	33.08477	5745422	2108971.75	Y	No Response	
52	16.12664	5745436	2108971.75	N		
53	166.1918	5745271.5	2108972.75	Y	Audible Response	
54	34.56459	5745334	2108977	Y	No Response	Share w/ Target 55
55	25.2405	5745331.5	2108978	Y	No Response	Share w/ Target 54
56	25.3791	5745435.5	2108984	N		
57	14.4074	5745256.25	2108985.5	Y	No Response	
58	17.3025	5745326.75	2108986	Y	No Response	
59	15.94199	5745354.25	2108989.5	Y	No Response	
60	30.76668	5745429.5	2108994.75	N		
61	33.11819	5745432.25	2108996.75	N		
62	54.27016	5745342.25	2109003.75	Y	Audible Response	Share w/ Target 63
63	39.25478	5745340.5	2109004	Y	Audible Response	Share w/ Target 62
64	14.05945	5745336.75	2109006.5	Y	No Response	
65	15.18539	5745292.25	2109007.25	Y	No Response	
66	23.88138	5745415.75	2109009.75	Y	No Response	
67	61.24277	5745384	2109011.25	Y	Audible Response	
68	14.24393	5745305.75	2109018.5	Y	No Response	
69	52.57648	5745311.5	2109021.75	Y	No Response	
70	77.38331	5745386	2109023.5	Y	Audible Response	
71	19.97209	5745344	2109026	Y	No Response	
72	28.60869	5745393.75	2109026	Y	No Response	Share w/ Target 73
73	48.58676	5745391.25	2109026.5	Y	No Response	Share w/ Target 72
74	24.76815	5745331	2109030.5	Y	No Response	
75	29.25439	5745301.5	2109041.25	Y	No Response	
76	14.46211	5745318	2109044	Y	No Response	
77	17.17216	5745315.25	2109045.5	Y	No Response	
78	18.21874	5745373	2109059	Y	No Response	
79	14.53906	5745369.75	2109059.5	Y	No Response	
80	21.026	5745388.75	2109069.25	Y	No Response	

Appendix C

FINAL
DGM SURVEY OF VERNAL POND 76
at
FORMER FORT ORD
MONTEREY, CALIFORNIA

Prepared by:

U.S. Army Corps of Engineers, Sacramento District



January 2024

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Appendix A: Target List

1.0 Introduction

This report describes the digital geophysical mapping (DGM) survey performed by the United State Army Corps of Engineers (USACE) to support removal of munitions and explosives of concern (MEC) items within Vernal Pond 76 located in Unit 5 of the Impact Area Munitions Response Area (MRA) at the former Fort Ord, California.

2.0 Objective

Wetland monitoring requires that biologists enter the inundated areas when the visibility of the surface is obstructed by water and there is a potential for subsurface disturbance. The *Final Record of Decision Impact Area Munitions Response Area Track 3 Munitions Response Site Former Fort Ord, California* [Track 3 ROD; United States Department of the Army (Army), 2008] requires construction support for ground-disturbing or intrusive activities. Due to the lack of visibility in inundated areas, construction support and anomaly avoidance are impractical to support access to ponds during wet periods.

The objective of the DGM survey in Vernal Pond 76 was to map subsurface anomalies within the footprint of the pond that potentially represent MEC and evaluate whether to perform a subsurface removal to make Vernal Pond 76 safe for biological surveys.

3.0 Background

The Impact Area MRA at the former Fort Ord, California contains vernal ponds that frequently fill with water during the winter months. Vernal ponds on the former Fort Ord provide breeding habitat for the California fairy shrimp and the federally and state threatened California tiger salamander. Monitoring for these species and other biological resources requires that biologists enter the inundated areas when the visibility of the surface is obstructed by water and there is a potential for subsurface disturbance.

A vernal pond in Unit 5, Pond 21, was remediated (subsurface MEC removal) by KEMRON after the completion of a DGM survey and anomaly identification by USACE and following processes

and procedures described in the Unit 5 SSWP Addendum (KEMRON, 2022). After the finalization of the Unit 5 SSWP Addendum, a new pond in Unit 5, Pond 76, was identified and added to the Fort Ord vernal pond database in 2022 for vernal pond management. The designation as a vernal pond was made prior to performing DGM over Unit 5 by KEMRON, and DGM of Pond 76 using the towed array was not performed to avoid potential damage to the pond habitat (KEMRON, 2023).

Section 3.0 of the Unit 5 Remedial Action Technical Memorandum (KEMRON, 2023) stated the following: "It should be noted that DGM data was not collected in Pond 76, which is a variance from the Unit 5 SSWP Addendum. The USACE plans to do a DGM survey in Pond 76 when site conditions permit." After extended standing water conditions, Pond 76 was sufficiently dry for geophysical mapping in September 2023. USACE completed the DGM survey for Pond 76 at that time.

4.0 Site Location

Vernal Pond 76 is located within the southeastern portion of Unit 5 and is approximately 0.13 acres. Unit 5 is in the southern portion of the Impact Area MRA, south of Darwin Road. Figure 1 shows the location of Vernal Pond 76.

5.0 Digital Geophysical Mapping

The DGM survey of Vernal Pond 76 was conducted on 09/13/2023. The investigation area was delineated using the surface_water_body_area GIS layer, which is based on the historical maximum extent of the vernal pool. The DGM survey was conducted with a Leica RTK GPS antenna coupled to a person-portable single-coil EM61 to minimize disturbance to the vernal pond habitat. Data collection, processing, and management followed technical procedures described in the Quality Assurance Project Plan (QAPP; KEMRON 2016). Surface removal in Vernal Pond 76 had been conducted prior to the DGM survey as part of the Unit 5 Remedial Action (KEMRON, 2023). USACE personnel conducting the DGM survey were escorted by the USACE Ordnance and Explosives Safety Specialist (OESS) to properly implement anomaly avoidance procedures. Figure 2 shows the results of the DGM survey.

5.1 Data Collection Procedures

DGM system functionality was demonstrated by performance of daily functional tests, the results of which were verified against project measurement quality objectives (MQOs) as described in the QAPP (KEMRON 2016). The following instrument tests were performed daily:

- Static Background Test (conducted twice daily)
- Static Spike Test (conducted twice daily)
- Personnel Test
- Cable Shake Test
- Instrument Verification Strip (conducted twice daily)

Prior to daily functional tests the EM61 unit was allowed to warm up for 15 minutes. The Unit 28 instrument verification strip (IVS) was used for daily testing. Prior to conducting the initial IVS tests and DGM survey in Pond 76, the IVS strip was surveyed 10 times with the person-portable EM61 to establish the expected response of the IVS items. The peak responses for each of the four IVS items were averaged over the 10 surveys to establish the expected response.

The DGM survey of Vernal Pond 76 was conducted with an EM61 utilizing the four time-gate readings from the bottom coil. Readings were sampled at a minimum rate of 10 readings per second. Leica GPS readings were logged at a rate of 1 reading per second. A single EM61-MK2A unit was mounted on wheels and manually pulled to survey the footprint of the pond. The DGM survey for the project area was collected with Category A MQOs which provide sufficient data quality to evaluate whether to perform a subsurface removal in the vernal pond.

Prior to conducting the DGM survey of the pond, the USACE OESS placed three pseudo-blind QA seeds throughout the footprint of the pond. The seeds used were small ISOs (schedule 40) placed horizontally on the ground surface. Prior to emplacement of the seeds, the USACE OESS surveyed a one-meter radius around the proposed location with a Schondstedt magnetometer to ensure no other anomalies were present. While the seeds were not completely blind to the USACE Geophysicist conducting the DGM survey and data processing, the resulting data were processed completely without any quantitative knowledge of seed coordinates (i.e., X and Y coordinates) before being compared to seed locations. While not completely blind, the seeds do serve as additional indicators of instrument functionality and target quality.

5.2 Data Processing

DGM data were processed using Geosoft's Oasis Montaj and vendor-supplied software. Geosoft Oasis Montaj processing included several steps:

1. Transforming raw data to American Standard Code for Information Interchange (ASCII) xyz files: Using vendor-supplied software, data were converted form the native file format to ASCII data files suitable for import into Oasis Montaj.
2. Initial data review: Once raw .xyz files were imported into Oasis Montaj, the coordinates were converted to the project coordinate system. Data coverage and quality were assessed by the data processors.
3. Correcting for instrument latency: DGM data were shifted to account for the time lag inherent in the data logging system.
4. Leveling data: Data were leveled to the same background values removing the effects of instrument drift. The leveled data were added together to create the 4-channel sum.

Data processing procedures remained consistent for the project area.

5.3 Measurement Quality Objectives

The DGM survey for Vernal Pond 76 were conducted with Category A MQOs (95% at 2-foot line-spacing and 100% at 3-foot line-spacing) based on the post-DGM activities planned for the site (Figures 3 and 4).

The following items were monitored throughout the project according to MQOs specified in the Final QAPP (KEMRON, 2016)

1. Background noise
2. Mean speed
3. Along-track spacing
4. Across-track spacing
5. Instrument latency corrections
6. Data leveling
7. Systematic noise
8. Anomaly selection

9. Positioning errors
10. Known location items
11. Pseudo-blind QA seeds

All data collected in Vernal Pond 76 met established MQOs. Results of the twice-daily IVS tests are shown on Figures 5-8. Results of the pseudo-blind QA seed detection are shown in Table 1.

6.0 Results and Recommendations

A total of 7 targets were detected in Vernal Pond 76 (Appendix A) using a target detection threshold of 14 mV (summed channels 1-4).

Given the small number of anomalies and low anomaly-density in Vernal Pond 76 (approximately 54 anomalies/acre) there is no cost-benefit to using advanced geophysical classification (AGC) technologies over standard intrusive investigations.

Due to the relatively small number of anomalies the USACE SPK recommends these anomalies be reacquired, intrusively investigated, and resolved using established methods.

7.0 References

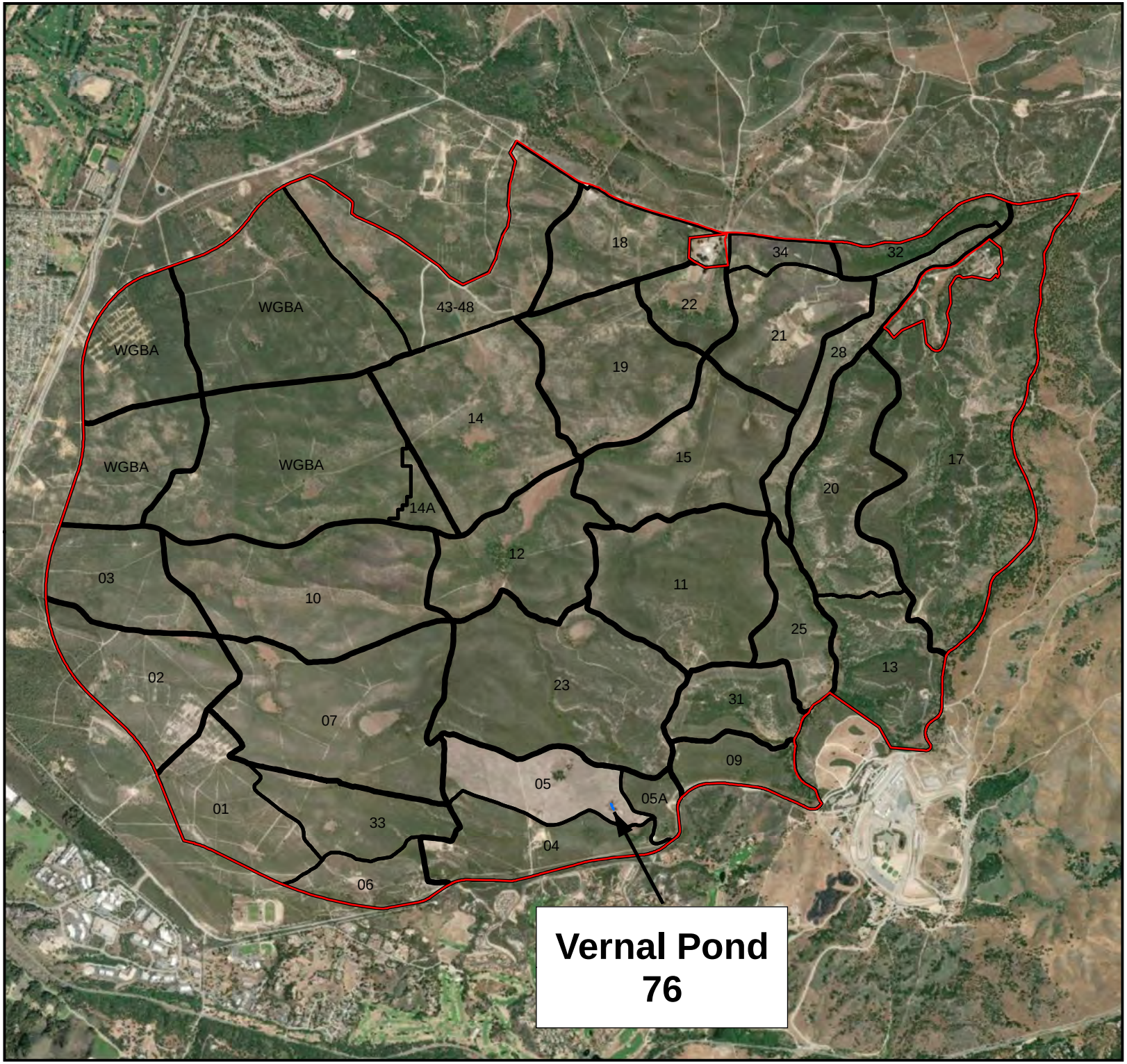
Army, 2008, *Final Track 3 Record of Decision, Impact Area Munitions Response Area, Track 3 Munitions Response Site, Former Fort Ord, California.* (AR# OE-0647)

KEMRON Environmental Services (KEMRON), 2016. *Final, Quality Assurance Project Plan, Former Fort Ord, California, Volume II, Appendix A, Munitions and Explosives of Concern Remedial Action.* (AR# OE-0884A)

KEMRON Environmental Services (KEMRON), 2022. *Final, Addendum to Final Work Plan, MRS-BLM Units 1-5, Munitions and Explosives of Concern Removal, Former Fort Ord, California, Unit 5.* (AR# OE-0626U)

KEMRON Environmental Services (KEMRON), 2023. *Final, MRS-BLM Unit 5 MEC Remedial Action, Technical Memorandum, Former Fort Ord, California.* (AR# OE-1019A)

FIGURES



Legend

- Fuel Breaks
- Impact Area Munitions Response Boundary

N

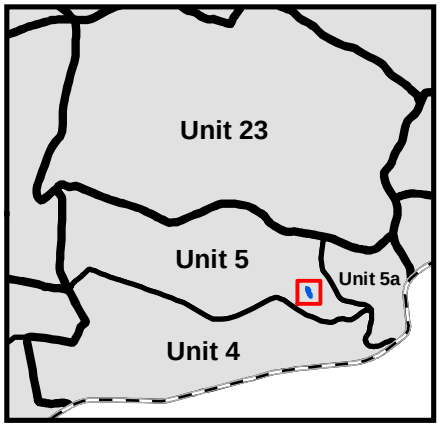
Feet

0 2,000 4,000

U.S. Army Corps of Engineers
Sacramento District

Figure 1

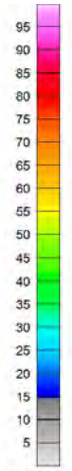
Vernal Pond 76
Former Fort Ord, CA



Legend

- QA Seed
- Target
- Pond 76*

*Source: surface_water_body_area.shp from the Fort Ord geodatabase. Based on historical maximum extent of the vernal pool.



N

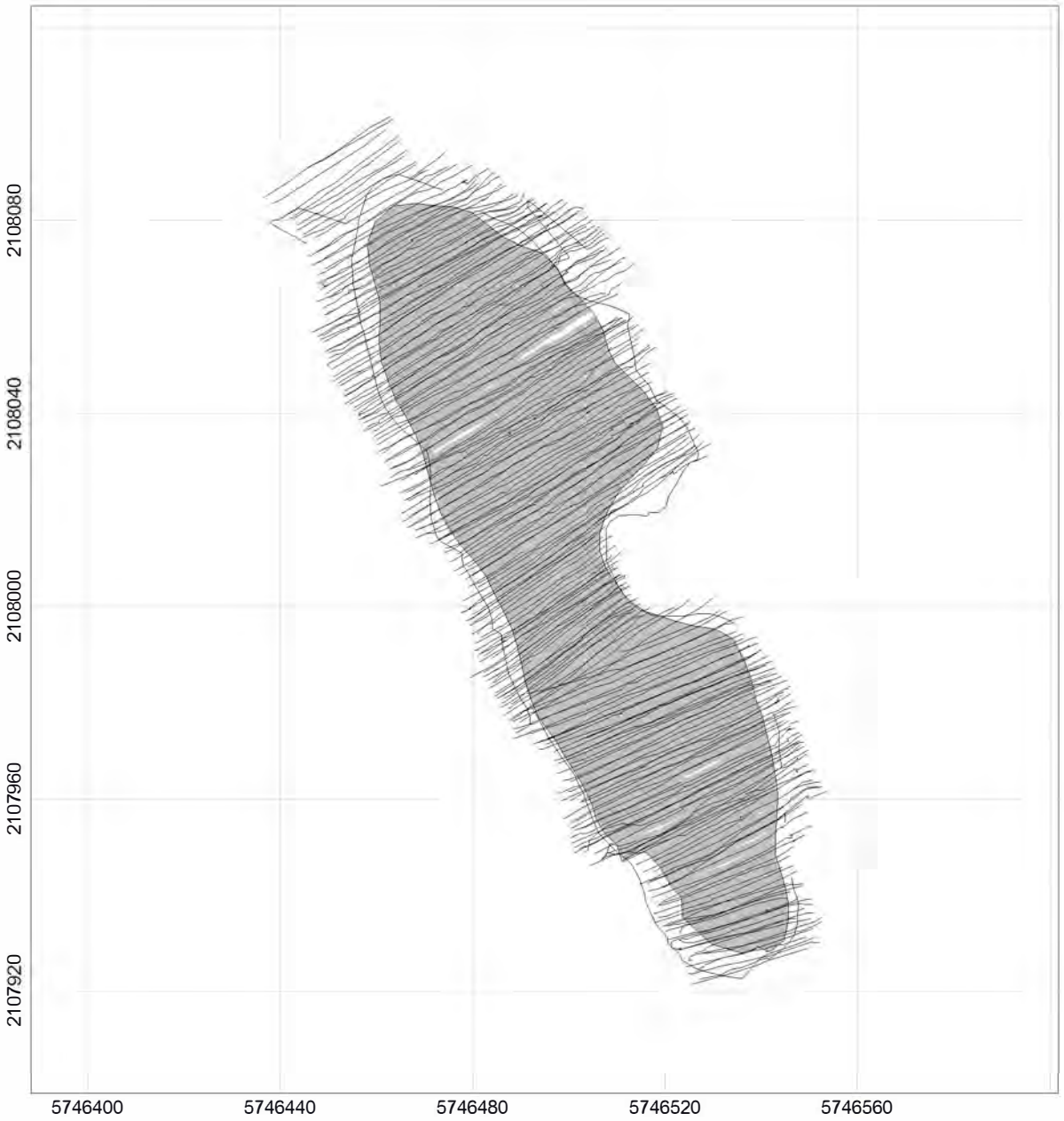
Feet

0 40

U.S. Army Corps of Engineers
Sacramento District

Figure 2

Pond 76
DGM Survey Results



MAP

Footprint Coverage

LEGEND

Footprint shape: Square
Footprint size: 2.00 ftUS
Area covered: 5768.12 ftUS²
Total area: 5809.51 ftUS²
Percentage covered: 99.29 %

Map Scale:

Scale 1:425

0 25

US survey foot

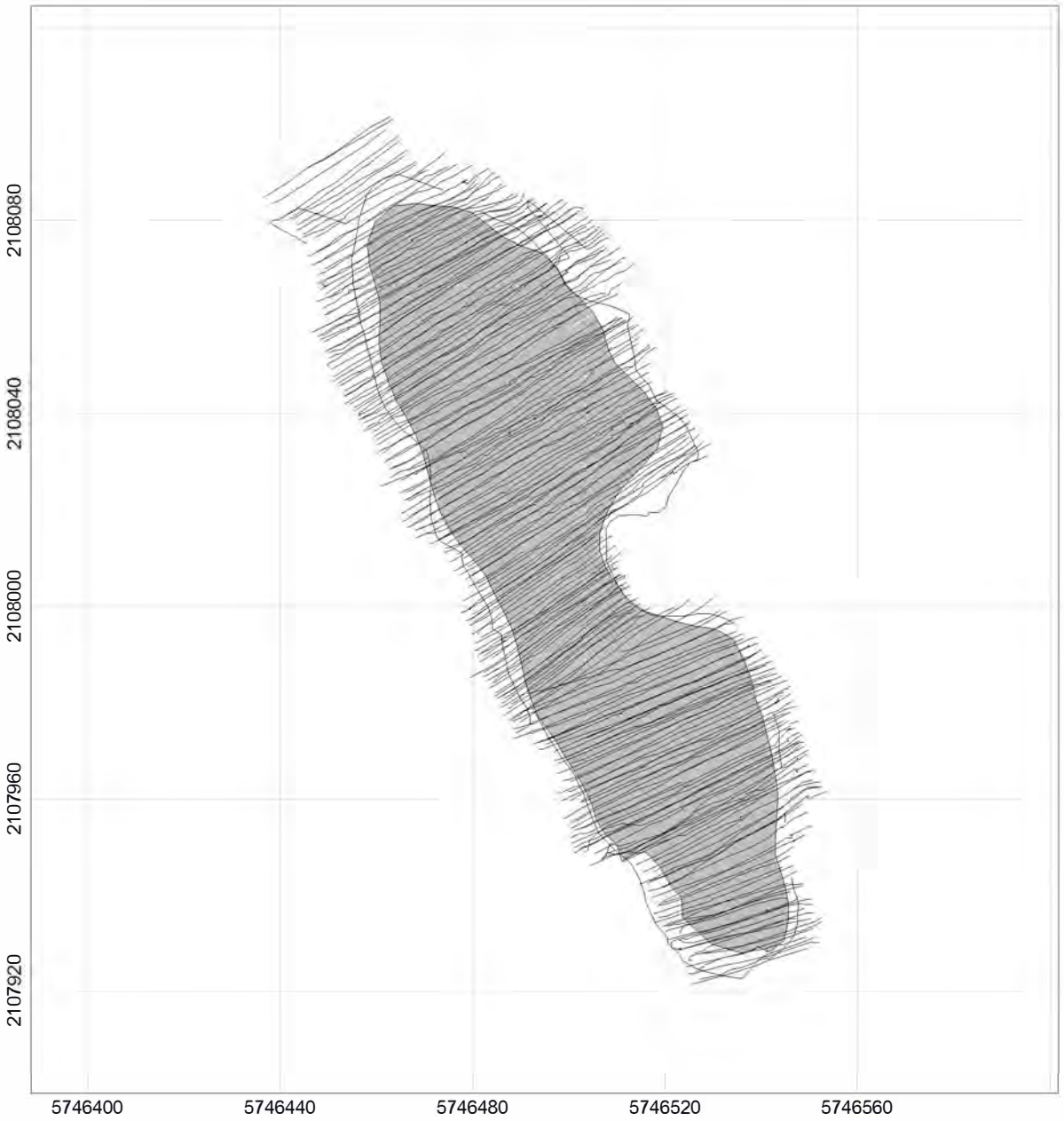
NAD83 / California zone 4 (ftUS)

N

Grid North: 0°0'0"
Mag North: 0°0'0"

Client:	
Project:	
Contractor:	
Created by:	**Verified by:**
Date:	**File:** 091323_Pond76_uceFootp...
Page number:	**Approved:**

Figure 3



MAP

Footprint Coverage

LEGEND

Footprint shape: Square
Footprint size: 3.00 ftUS
Area covered: 5808.08 ftUS²
Total area: 5809.51 ftUS²
Percentage covered: 99.98 %

Map Scale:

Scale 1:425

0 25

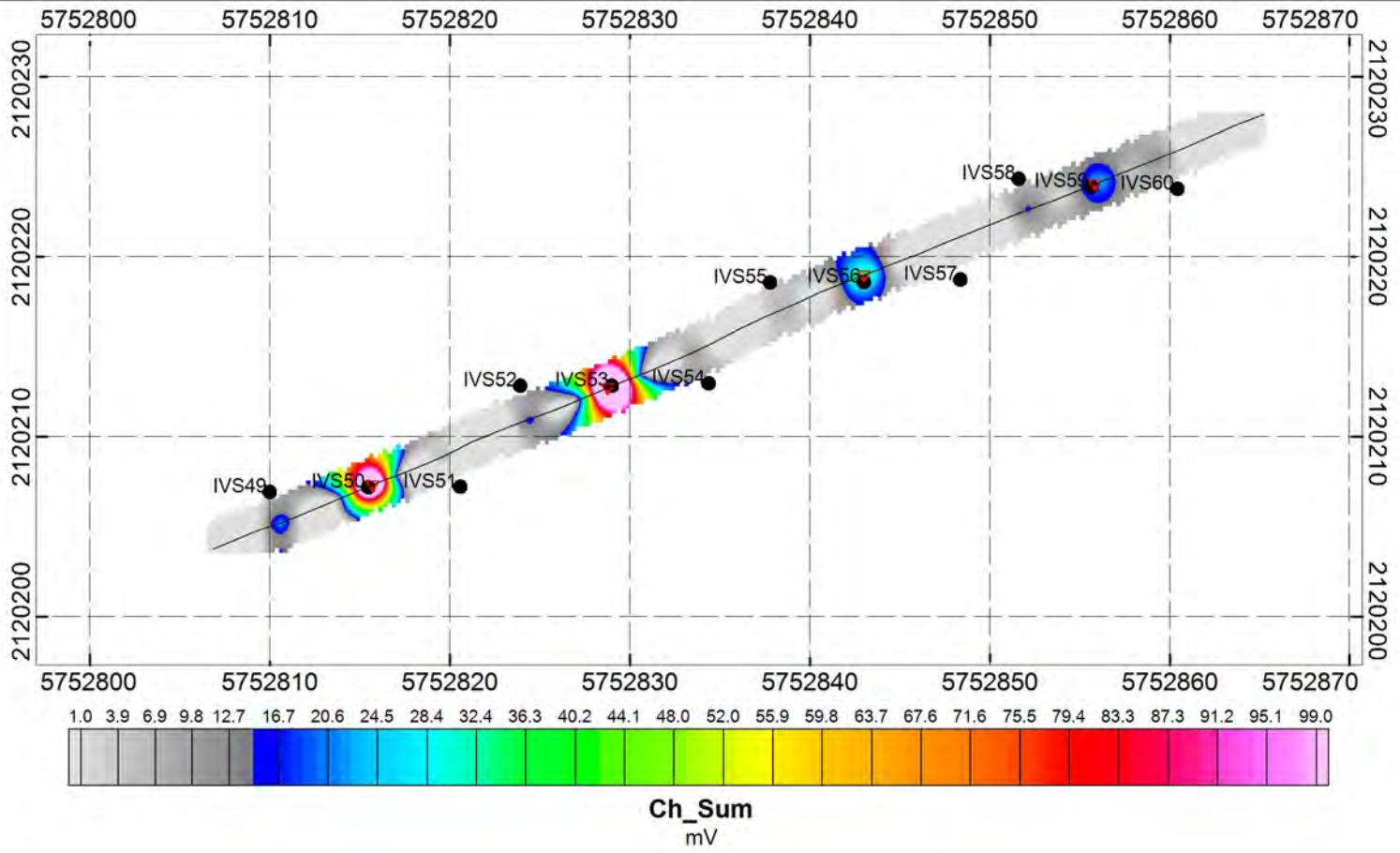
US survey foot

NAD83 / California zone 4 (ftUS)

Grid North: 0°0'0"
Mag North: 0°0'0"

Client:	
Project:	
Contractor:	
Created by:	**Verified by:**
Date:	**File:** 091323_Pond76_uceFootp...
Page number:	**Approved:**

Figure **4**



Legend

- Peak Response Location
- Seeded ISO
- Line Path

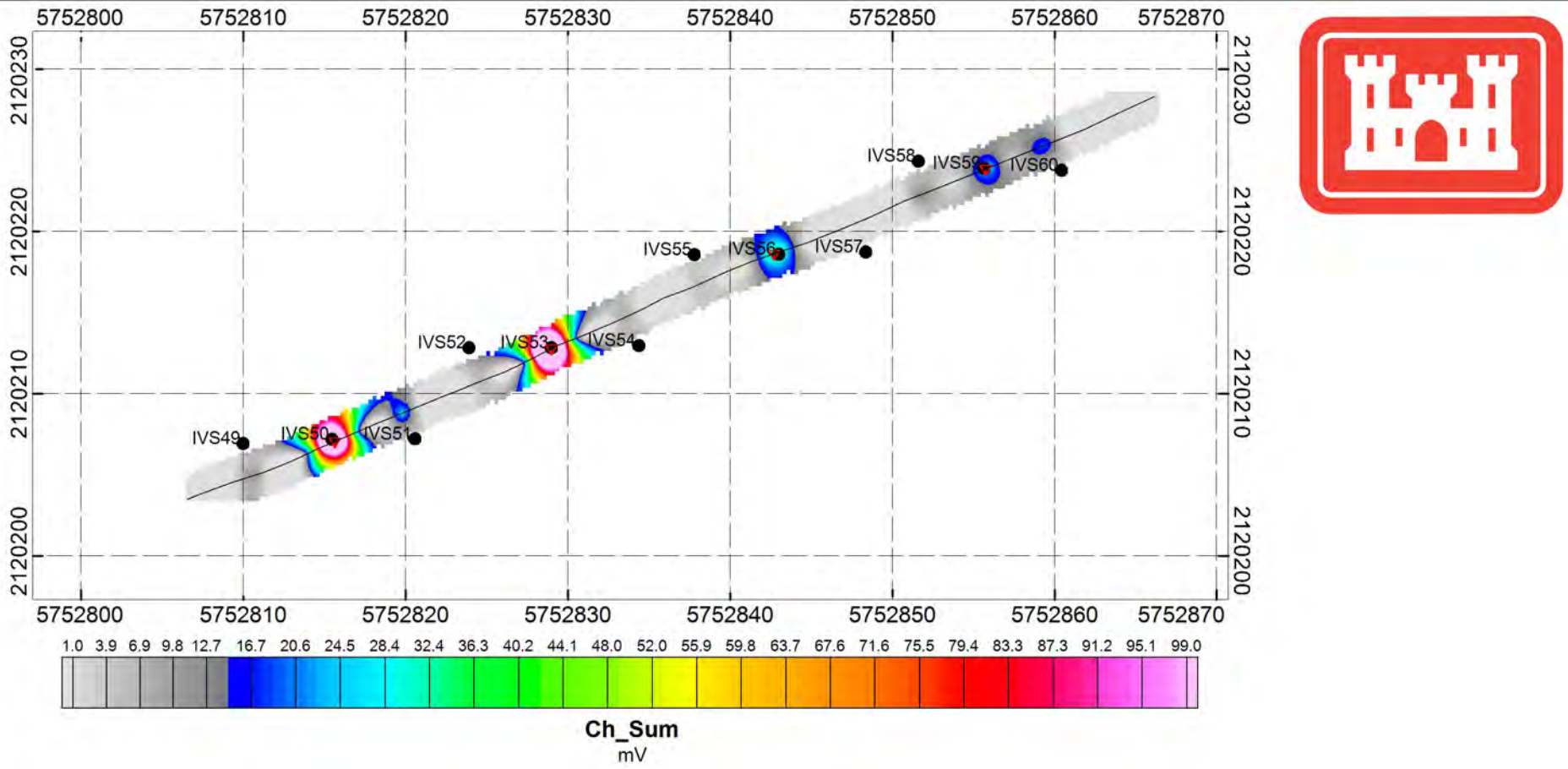
Scale 1:120

5 0 5 10

US survey foot

NAD83 / California zone 4 (ftUS)

USACE
EM61 MK2 Bottom Coil 091323IVS1 Unit 28 IVS Fort Ord, California
Figure 5 Date of Survey: 09/13/2023



Legend

- Peak Response Location
- Seeded ISO
- Line Path

Scale 1:120

5 0 5 10

US survey foot

NAD83 / California zone 4 (ftUS)

USACE
EM61 MK2 Bottom Coil 091323IVS2 Unit 28 IVS Fort Ord, California
Figure 6 Date of Survey: 09/13/2023

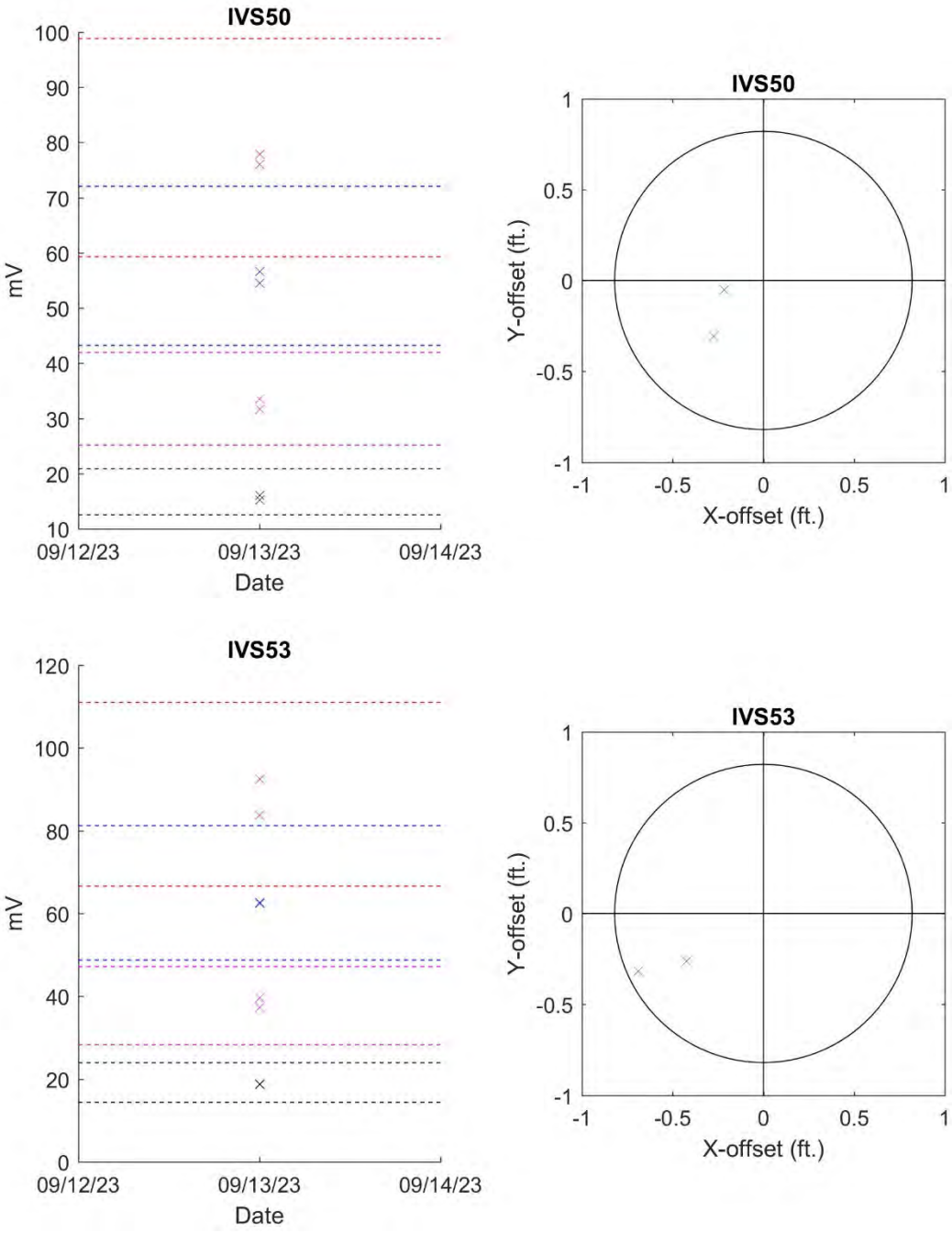


Figure 7. (Left) DGM response of IVS items IVS50 and IVS53 for each survey day. "X" symboles represent peak anomaly response for channel 1 (blue), channel 2 (red), channel 3 (magenta), and channel 4 (black). Dashed lines show the allowable variability (+/- 25% of predicted response) established in WS #22. (Right) Daily IVS positioning results for the Pond 21 DGM survey. Blue "X" symbols show the offset between the picked DGM anomaly and the IVS item ground truth. Black circle shows the maximum acceptable offset (0.82 ft.) established in WS #22.

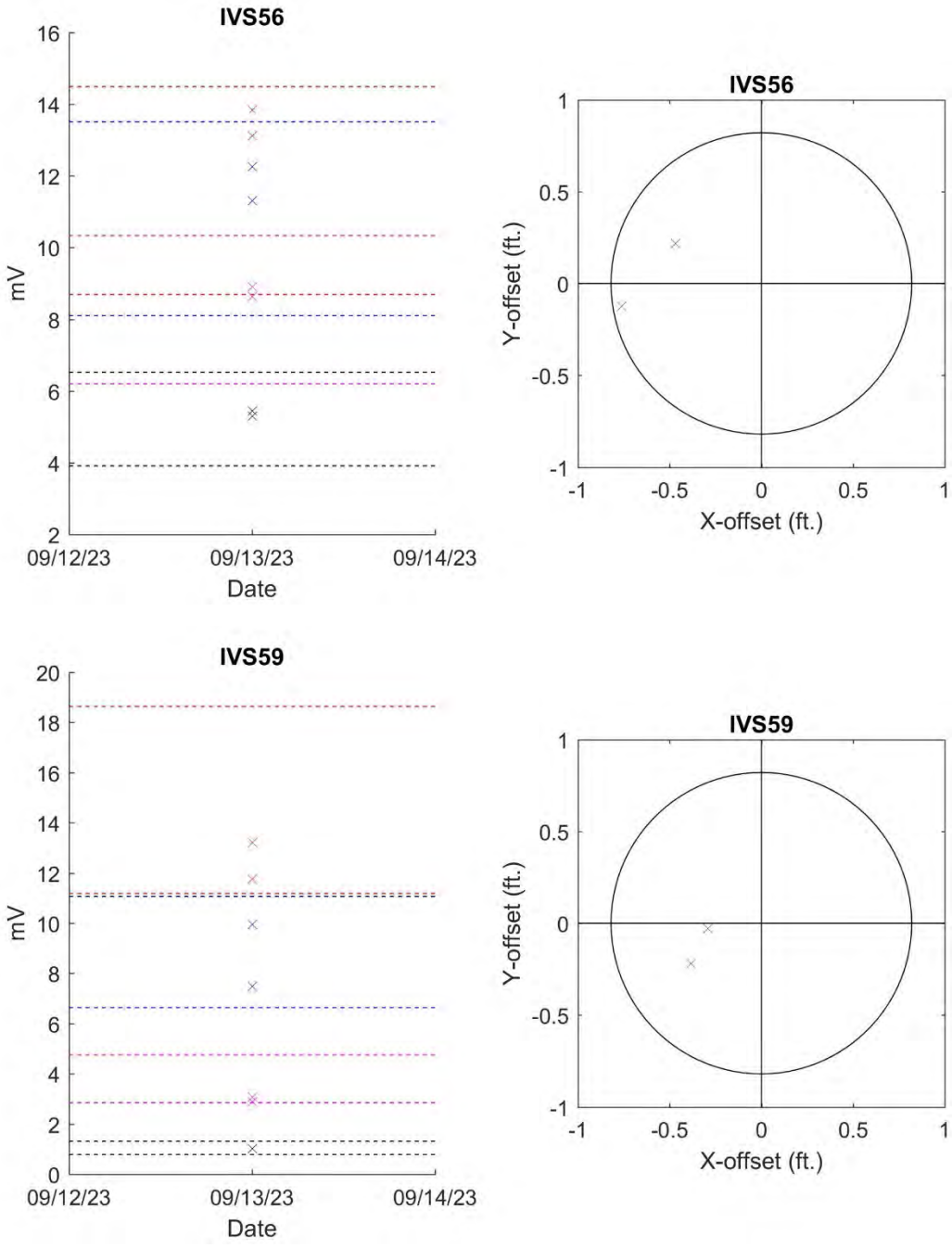


Figure 8. (Left) DGM response of IVS items IVS56 and IVS59 for each survey day. "X" symboles represent peak anomaly response for channel 1 (blue), channel 2 (red), channel 3 (magenta), and channel 4 (black). Dashed lines show the allowable variability (+/- 25% of predicted response) established in WS #22. (Right) Daily IVS positioning results for the Pond 21 DGM survey. Blue "X" symbols show the offset between the picked DGM anomaly and the IVS item ground truth. Black circle shows the maximum acceptable offset (0.82 ft.) established in WS #22.

TABLES

Seed ID	Known X	Known Y	Depth (inches)	Reported X	Reported Y	Reported Response (mV)	Offset (inches)	Response Passes?	Positioning Passes?
QA-L39	5746473.407	2108069.482	0	5746472.597	2108070.246	329.01	13.36	Yes	Yes
QA-L128	5746490.874	2107999.619	0	5746491.482	2108000.017	311.09	8.72	Yes	Yes
QA-L237	5746517.977	2107952.357	0	5746516.98	2107952.161	195.9	12.19	Yes	Yes

Table 1. Pseudo-blind QA seed detection results for Pond 76. X and Y coordinates are reported in NAD83 California State Plane Zone IV (feet).

APPENDIX A

Appendix A: Pond 76 Target List				
Target ID	**Ch Sum (mV)**	**X**	**Y**	**Notes**
P76-1	101.39	5746500.268	2107966.34	
P76-2	20	5746511.782	2108002.132	
P76-3	16.94	5746482.261	2108033.173	
P76-4	30.94	5746503.442	2108034.155	
P76-5	163.55	5746508.353	2108053.488	
P76-6	29.83	5746495.741	2108064.413	
P76-7	14.52	5746469.96	2108077.391	
QA-L39	329.01	5746472.597	2108070.246	QA Seed – DO NOT DIG
QA-L128	311.09	5746491.482	2108000.017	QA Seed – DO NOT DIG
QA-L237	195.9	5746516.98	2107952.161	QA Seed – DO NOT DIG

Note: X and Y coordinates are reported in NAD83 California State Plane Zone IV (feet).

Appendix D

Unit 5 Target Box Filling

Summary Memorandum

Former Fort Ord, California

October 2024
FINAL

Prepared for

United States Army Corps of Engineers
Sacramento District
1325 J Street
Sacramento, California 95814

Contract No. W9123820D0004
Task Order: W9123824F0035

Prepared by

KEMRON
ENVIRONMENTAL SERVICES

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ACRONYMS AND ABBREVIATIONS

BLM	Bureau of Land Management
BRAC	Base Realignment and Closure
DD&A	Denise Duffy & Associates
GFE	Government-Furnished Equipment
HCL	Habitat Checklist
CTS	California Tiger Salamander
MMRP	Military Munition Response Program
OESS	Ordnance and Explosives Safety Specialist
SUXOS	Senior Unexploded Ordnance Supervisor
TO	Task Order
USACE	United States Army Corps of Engineers
UXO	Unexploded Ordnance

1.0 PURPOSE

The purpose of this memorandum is to document and summarize the recent target box filling and Nason Road erosion repair projects completed by KEMRON in Unit 5 of the Impact Area at the former Fort Ord during July 2024. Unit 5 is located in the southeastern portion of the former Fort Ord Impact Area (see Figure 1).

2.0 AUTHORIZATION

W9123820D0004, Task Order (TO) W9123824F0035 (KEMRON TO 05) was authorized by the US Army Corps of Engineers (USACE) earlier in 2024 for KEMRON to perform the filling of the target boxes in Unit 5 as well as the erosion repairs on Nason Road adjacent to that unit. This project resulted from the Joint Army-Bureau of Land Management (BLM) inspection of Unit 5 after surface MEC removal and digital geophysical mapping had been completed in the unit, during which BLM requested the filling of the target boxes as a safety measure for future BLM teams performing work in the unit.

3.0 PREPARATORY MEETING

KEMRON conducted a preparatory meeting for this project on the morning of June 18, 2024 at the field office compound at 4522 Joe Lloyd Way. The meeting included the introduction of all project personnel and their roles, a review of the field procedures to be followed, quality control activities, safety issues, and biological protection concerns, including presentation of the Habitat Checklist (HCL) for the project.

4.0 UNIT 5 TARGET BOX FILLING

4.1 Procedures

The procedures for completing the Unit 5 target box filling were developed by KEMRON in the course of its proposal for TO 05 and were approved in the course of the TO 05 authorization. Since the work was fairly cursory and did not constitute a Comprehensive Environmental Response Compensation and Liability Act (CERCLA) remedial action, it was agreed by USACE, BRAC, and KEMRON that no formal work plan was required.

KEMRON completed the filling of the 35 target boxes in Unit 5, 34 in the eastern/southeastern portion of the unit and one just south of HA-29 at Forestall Road (see Figures 2 and 3). A vertical corrugated pipe was also filled as part of the project. The borrow area source for the soils used for this project was in the northern portion of Unit 4, immediately to the south of Unit 5.

KEMRON leased a small excavator (36-inch bucket) and two 2-cubic yard dump trailers (10-12 ft, Tandem 9K model) to move the soil from the borrow source to the project site, with a stockpile area along Nason Road near most of the target boxes. One additional small dump trailer was utilized over 2 days and towed by the KEMRON Senior Unexploded Ordnance Supervisor (SUXOS) field vehicle to help with meeting the planned production rate. The KEMRON team took care to not promote any further erosion on any roadways, driving slowly when transporting the soil to Unit 5. The original estimate of the soil volume required to fill all Unit 5 target boxes was 100 cubic yards.

The Government-furnished equipment (GFE) skid steer was used to move soil from the stockpile area to the target boxes in the interior of Unit 5 for placement. After soil placement in the target boxes, the soil was hand-tamped, using GFE hand tampers, to minimize the chance for future settlement. For some target boxes, after the tamping procedure, additional soil was brought in in order for the filled areas to be completely contiguous with the surrounding ground surface.

KEMRON utilized one 4-person unexploded ordnance (UXO) team to perform the Unit 5 target box filling. The following roles for each team member were as follows:

- Tech #1 – Borrow area excavator operator and truck driver with dump trailer.
- Tech #2 – Borrow area excavation spotter and truck driver with dump trailer.
- Tech #3 – Skid steer operator in Unit 5.
- Tech #4 – Ground spotter for skid steer operator and hand tamper for placed soils in target boxes.

4.2 Biological Protection Preparation and Inspections

Prior to the start of filling activities, the Base, Realignment and Closure [BRAC] Biologist staked out a path from Nason Road to and between the target boxes (for a skid steer) to minimize impacts to the existing vegetation and checked the target boxes for the presence of California Tiger Salamander (CTS) and other wildlife. Each target box was then checked daily by the Denise Duffy & Associates (DD&A) biologist prior to the start of work for the potential presence of CTS and other wildlife and oversaw daily activities. No CTS or other wildlife were discovered during the target boxes filling activities.

4.3 Daily Progress

KEMRON began work on the target box filling late on 7/12/24, starting with the lone target box next to HA-29 near Forrestal Road. On 7/15/24, KEMRON completed the filling of 10 target boxes near Nason Road. A total of 14 target boxes were filled the following day, including the corrugated pipe, and the remaining 10 target boxes were filled on 7/17/24. Some additional minor work proceeded on 7/18/24 to place some additional soil on select target boxes that had been filled in order to make a smoother transition with the surrounding ground surface. The project was successfully completed on that day.

No CTS were observed by the Project Biologist in any of the target boxes or surrounding areas during the course of the filling project.

4.4 Soil Quantities

The dimensions of each target box were measured in advance of the filling process. Table 1 presents the dimensions of each target box, the soil volumes required for filling each target box, and the dates when target boxes were filled. The project required a total of 74.4 cubic yards from the Unit 4 borrow area to fill all 35 target boxes and the one corrugated pipe in Unit 5.

4.5 Photographs

Select photographs of the work activities are presented in Appendix A.

5.0 NASON ROAD EROSION REPAIRS

5.1 Procedures

The procedures for completing the Nason Road erosion repairs were developed by KEMRON in the course of its proposal for TO 05 and were approved in the course of the TO 05 authorization. Since the work was fairly cursory and did not constitute a CERCLA remedial action, it was agreed by all parties that no formal work plan was required.

Erosion control on Nason Road took place after all the target boxes in Unit 5 were filled. The extent of the erosion control work area was decided in advance with the SUXOS, Ordnance and Explosives Safety Specialist (OESS), BRAC Biologist, and DD&A Biologist. The repair area was a deep rut (up to 18 inches in depth) that ran approximately 150 feet in length. A small volume of borrow soil (1 to 1.5 cubic yards) was initially placed in the erosion area. The mulch for filling the majority of erosion area on Nason Road came from the HA-29 borrow area. After placement of the mulch, the material was compacted with skid steer drive-overs. Mulch from south of HA-29 near the borrow area was then placed on top of the soil.

5.2 Biological Protection Preparation and Inspections

The DD&A Project Biologist preformed a preliminary inspection of the erosion control project length along Nason Road and reviewed with the SUXOS where placement of soils and mulch could occur, so that no adverse impacts to sensitive biological resources would occur. Following this pre-inspection and planning, locations of known populations of Yadon's piperia were flagged for avoidance by work crews.

5.3 Daily Progress

The skid steer was initially used to collapse the sides of the of the erosion with some chips wadded to reduce the risk of a truck or trailer driving into the erosion area prior to the final compacting the soil and adding wood chips. The placement of wood chips within the erosion feature along Nason Road was completed on 7/18/24.

No CTS were observed by the Project Biologist in either stockpile area or adjacent to the repair area on Nason Road at the outset of project work.

5.4 Mulch Quantity

An estimated 10 cubic yards of wood chips/mulch were used to complete the erosion repair work.

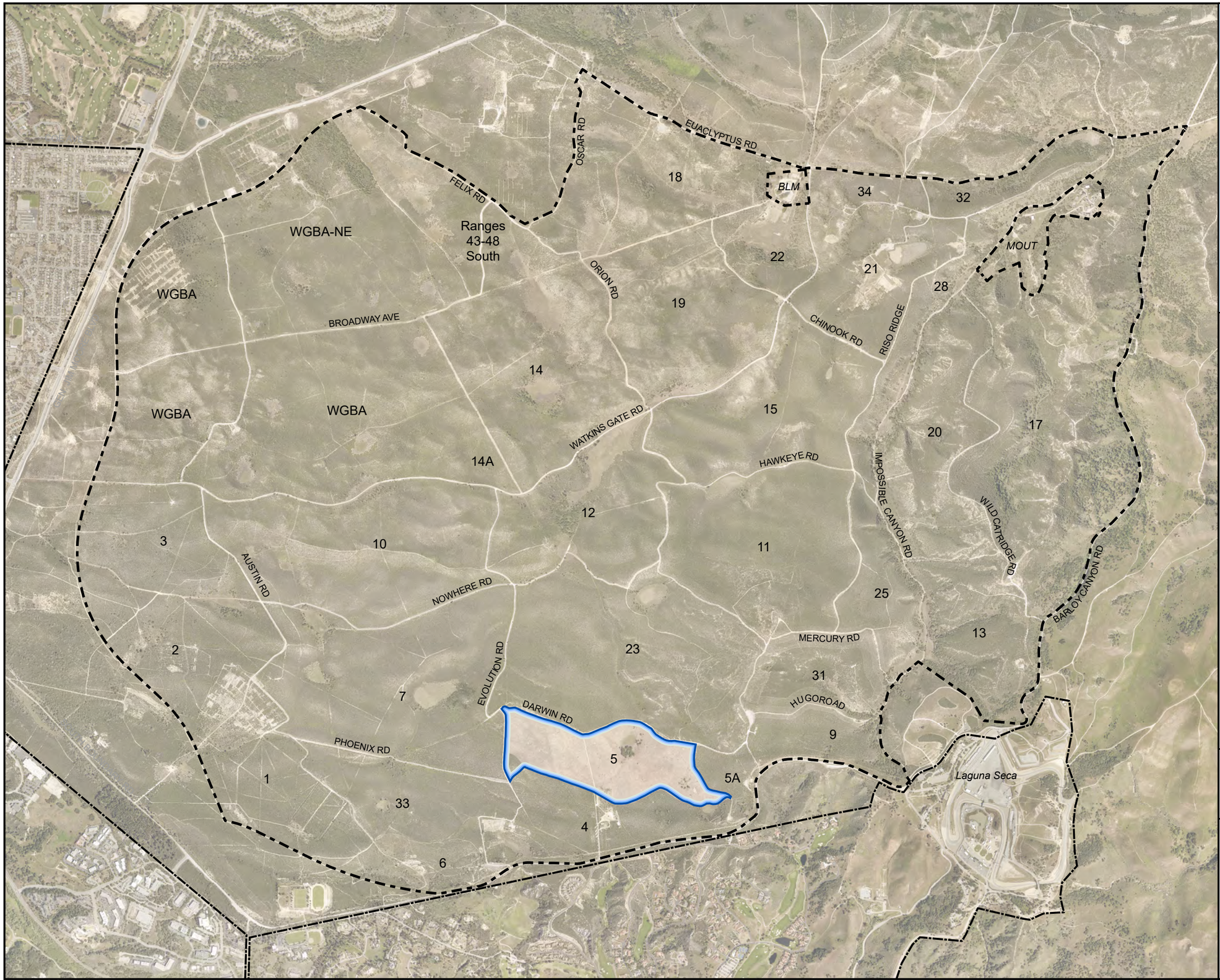
5.5 Photographs

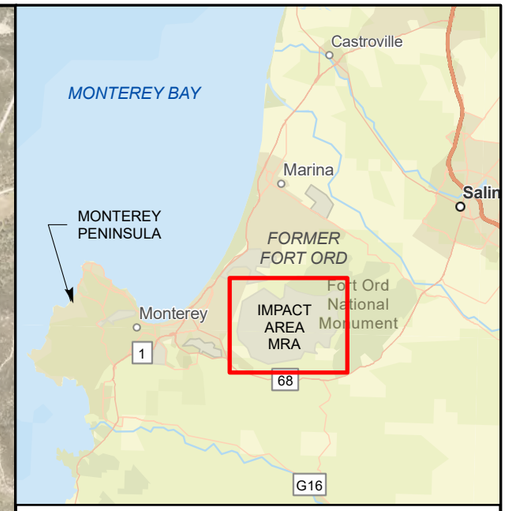
A photograph of the results of the work activity is presented in Appendix B.

6.0 SUMMARY MEMORANDUM DISPOSITION

Although the target box filling project in Unit 5 documented in this Summary Memorandum is not characterized as a CERCLA remedial action, this document will nevertheless be added to the Unit 5 Remedial Action Report as an appendix in order to provide complete documentation of all completed Unit 5 activities by KEMRON.

FIGURES





Legend

- Unit 5
- Impact Area MRA Track 3 Boundary
- Former Fort Ord Boundary

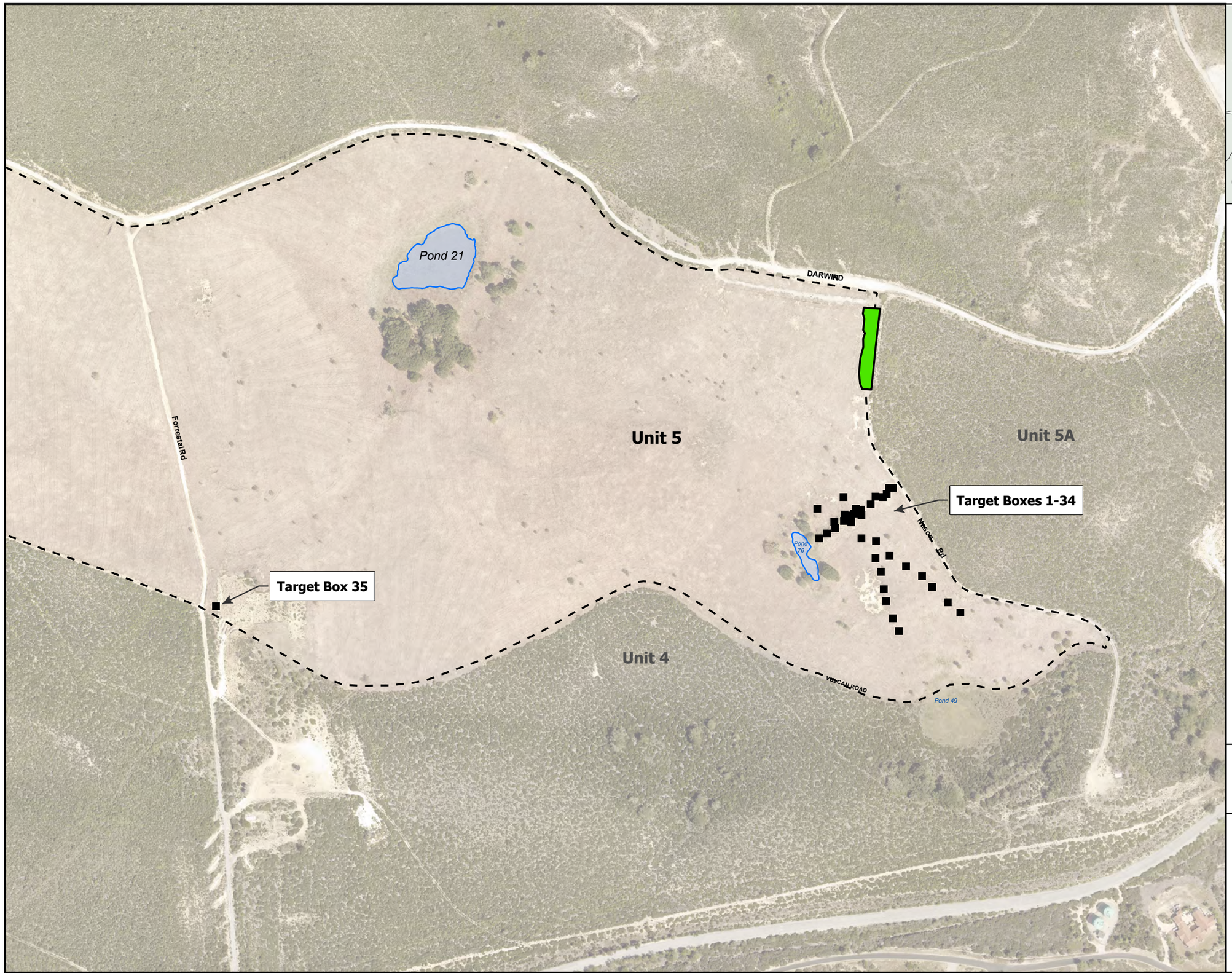
N

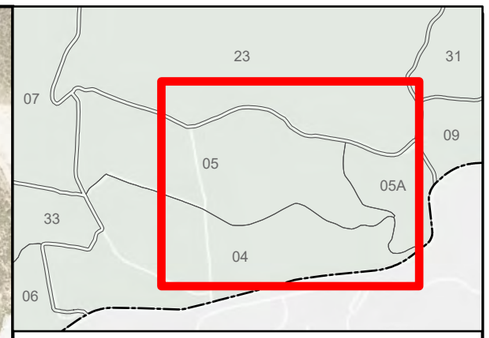
2,000 0 2,000 Feet

Unit 5 Target Box Filling and
Nason Road Repairs Summary Memorandum
Former Fort Ord, California

Figure 1
Site Location Map

C:\ArcGIS\Fort_Ord\Unit_05\Target_box_report\Target_Box_report.aprx 7/24/2024 [20:36 PM] CarrL, AECOM





Legend:

- Target Box
- Nason Road Erosion Repair Area
- Unit 5 Boundary
- Pond

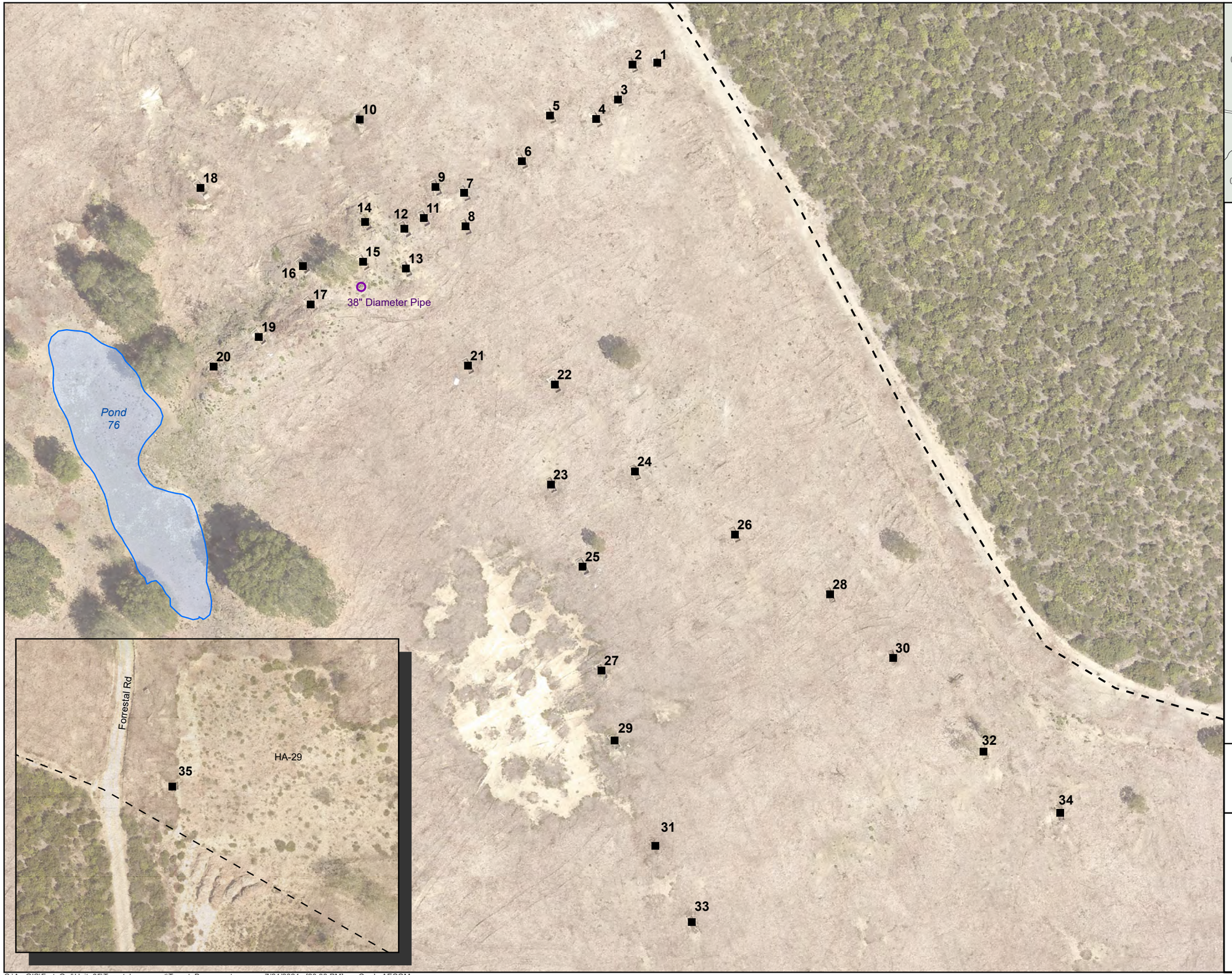
Note: See Figure 3 for target box details.

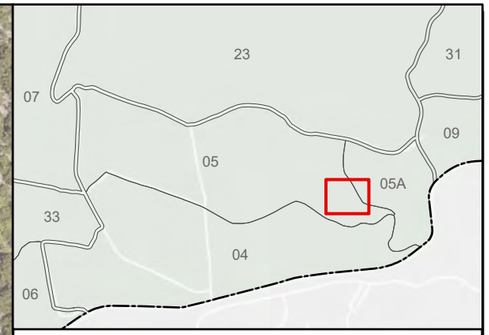
N

0 75 150 300 450 600
Feet

Unit 5 Target Box Filling and
Nason Road Repairs Summary Memorandum
Former Fort Ord, California

Figure 2
Target Box and Nason Road Erosion Repair Location Map





Legend:

- Target Box
- Pond
- Unit 5 Boundary

N

0 25 50 100

Feet

Unit 5 Target Box Filling and
Nason Road Repairs Summary Memorandum
Former Fort Ord, California

Figure 3
Target Box Locations

C:\ArcGIS\Fort_Ord\Unit_05\Target_box_report\Target_Box_report.aprx 7/24/2024 [20:33 PM] CarrL, AECOM

TABLES

TABLE 1. UNIT 5 TARGET BOX INFORMATION

Target Box #	Date Filled	Depth (in)	Length (in)	Width (in)	Volume (cubic yards)
1	7/15/2024	24	84	84	3.6
2	7/15/2024	18	103	40	1.6

3	7/15/2024	18	103	40	1.6
4	7/15/2024	18	103	40	1.6
5	7/15/2024	18	103	40	1.6
6	7/15/2024	18	103	40	1.6
7	7/15/2024	18	103	40	1.6
8	7/15/2024	18	103	40	1.6
9	7/15/2024	18	103	40	1.6
10	7/15/2024	18	103	40	1.6
11	7/16/2024	24	103	40	2.1
12	7/16/2024	24	103	40	2.1
13	7/16/2024	24	103	40	2.1
14	7/16/2024	24	103	40	2.1
15	7/16/2024	27	103	40	2.4
16	7/16/2024	26	103	40	2.3
17	7/16/2024	25	103	40	2.2
18	7/16/2024	24	103	40	2.1
19	7/16/2024	24	103	40	2.1
20	7/16/2024	24	103	40	2.1
21	7/16/2024	24	103	40	2.1
22	7/16/2024	24	103	40	2.1
23	7/17/2024	24	103	40	2.1
24	7/16/2024	24	103	40	2.1
25	7/17/2024	24	103	40	2.1

26	7/17/2024	24	103	40	2.1
27	7/17/2024	24	103	40	2.1
28	7/17/2024	24	103	40	2.1
29	7/17/2024	24	103	40	2.1
30	7/17/2024	24	103	40	2.1
31	7/16/2024	24	103	40	2.1
32	7/17/2024	24	103	40	2.1
33	7/17/2024	24	103	40	2.1
34	7/17/2024	24	103	40	2.1
35	7/12/2024	45	72	72	5.0
Misc 1	7/16/2024	33	3	38	0.1
				TOTAL	**74.4 cubic yards**

APPENDICES

APPENDIX A

UNIT 5 TARGET BOX FILLING PHOTOGRAPHS

Photo A1. Loading dump trailer at the borrow area.

Photo A2. Stockpiling soil next to Nason Road.

Photo A3. First bucket of soil placed in a target box.

Photo A4. Hand-tamping top layer of soil on target box.

Photo A5. Compacting soil fill with skid steer.

Photo A6. Completed target box filling effort.

Appendix E

US ARMY CORPS OF ENGINEERS (USACE) **MUNITIONS RESPONSE** **QUALITY ASSURANCE REPORT (QAR) FORM** The proponent agency is CESO. *See instructions on page 2.*	1. REPORT NO. *(1,2,3, etc., for the Task Order (T.O.))* 7
2. USACE REPRESENTATIVE'S NAME James Britt	3. DATE ACTIVITY COMPLETED 2022-10-07

4. PROJECT NAME	5. PROJECT LOCATION	6. WEATHER CONDITIONS
MEC Remedial Action Unit 5	Former Impact Area, Fort Ord, Seaside, CA	Sunny and Clear.

7. CONTRACTOR	8. CONTRACT NUMBER	W9123820D0004
Kemron Environmental Services	9. T.O. NUMBER	CM01

10. DISTRIBUTED TO (*check boxes and insert individual's name*)

☒	a. District Program/Project Manager R. Curtis Payton II, PG	☐	b. Design Center
☐	c. Remedial Action District TM	☒	d. Contractor Steven M. Crane, PE, F.SAME, Kemron Senior PM

11. RESPONSE DUE DATE (*Based on type of nonconformance, IF REQUIRED*)

12. TYPE OF ACTIVITY CONDUCTED (*Include types of inspections/audits conducted, operations observed, etc.*)
Instrument Aided Surface Quality Assurance Inspection (QAI) of contractor completed grids in the Former Fort Ord Impact Area Munition Response Area (MRA), Track 3 Munitions Response Site (MRS), Unit 5, week ending 2022-10-07.

13. RESULTS AND OBSERVATIONS
Contractor completed and the following grids were Quality Assurance Inspected (QAI), for a surface removal phase only. The below listed grids are recommended for acceptance by USACE:

2022-10-03 - Former Fort Ord Impact Area MRA, Track 3 MRS, Unit 5: A2G8H2, A2G8H3, A2G8H4, A2G8H5, A2G8H6, A2G8H7, A2G8H8, A2G8H9, A2G8H0, A2G8I2, A2G8I3, A2G8I4, A2G8I5, A2G8I6, A2G8I7, A2G8I8, A2G8I9, A2G8I0, A2G8J2, A2G8J3, A2G8J4, A2G8J5, A2G8J6, A2G8J7, A2G8J8, A2G8J9, A2G8J0.

2022-10-04 - Former Fort Ord Impact Area MRA, Track 3 MRS, Unit 5: A2H8A2, A2H8A3, A2H8A4, A2H8A5, A2H8A6, A2H8A7, A2H8A8, A2H8A9, A2H8A0, A2H8B2, A2H8B3, A2H8B4, A2H8B5, A2H8B6, A2H8B7, A2H8B8, A2H8B9, A2H8B0, A2H8C2, A2H8C3, A2H8C4, A2H8C5, A2H8C6, A2H8C7, A2H8C8, A2H8C9, A2H8C0.

2022-10-05 - Former Fort Ord Impact Area MRA, Track 3 MRS, Unit 5: A2H8D2, A2H8D3, A2H8D4, A2H8D5, A2H8D6, A2H8D7, A2H8D8, A2H8D9, A2H8D0, A2H8E2, A2H8E3, A2H8E4, A2H8E5, A2H8E6, A2H8E7, A2H8E8, A2H8E9, A2H8E0, A2H8F2, A2H8F3, A2H8F4, A2H8F5, A2H8F6, A2H8F7, A2H8G1, A2H8G2, A2H8G3, A2H8G4, A2H8G5.

14. DEFICIENCY TYPE (*select one*) ☒ a. Not Applicable ☐ b. Critical ☐ c. Major ☐ d. Minor

☐ e. Other, *Specify*

15. DATE	16. USACE REPRESENTATIVE'S SIGNATURE
2022-10-07	BRITT.JAMES.CLIFTON.1056168920 Digitally signed by BRITT.JAMES.CLIFTON.1056168920 Date: 2022.10.05 15:13:44 -07'00'

17. CONTRACTOR REPRESENTATIVE'S NAME Brad Olson	18. DATE 2022-10-07

19. CONTRACTOR REPRESENTATIVE'S SIGNATURE (*indicating receipt of the QAR*) Bradley J Olson

20. **The Contractor will provide the following information to the Contract Specialist by the "Response Due" date above. Please contact the Contracting Officer's Representative (COR) or Project Manager if you have any questions.**

a. Contractor Response as to Cause and Actions Taken to Correct Current Condition and to Prevent Recurrence (*cite applicable quality control procedures or changes in plans, procedures, or practices*).

b. Contractor Representative's Authentication (*form must be signed before returning*)

(1) Printed Name	(2) Title	(3) Date Signed	(4) Signature
Brad Olson	SUXOS	2022-10-07	Bradley J Olson

c. Government Evaluation (*acceptance, partial acceptance, etc.*)

d. Government Actions (*reduced payment, cure notice, show cause, other*)

e. Close Out	Name	Title	Date (*YYYY-MM-DD*)	Signature
(1) Contractor Notified				
(2) USACE PDT Representative				
(3) Contracting Officer or COR				

INSTRUCTIONS FOR ENG FORM 6048

Block 1. Report number.

Block 2. Name of USACE representative conducting the quality assurance (QA) activity.

Block 3. Date QA Activity completed.

Block 4. Project Name, i.e., "Camp Swampy (MRS-02).

Block 5. Project Location, i.e., "Smithville, Alaska".

Block 6. Weather conditions, if applicable.

Block 7. Contractor and/or subcontractor executing the work.

Block 8. Contract number.

Block 9. Task Order number.

Block 10. List by name all official recipients of the QAR. At a minimum, the District Program/Project Manager must be selected.

Block 11. Enter the date that the contractor is to respond, if applicable.

Block 12. List all QA-related activities, inspections, audits conducted, operations observed, etc. Include specific references to applicable government quality requirements, i.e., Quality Assurance Surveillance Plans, Department of Defense, Army, and/or USACE requirements, policy, guidance, etc., requiring the inspection/audit being conducted. For example: "Spot-checked inventory of demolition explosives as required by the project QASP and approved Explosives Safety Submission (ESS)."

Block 13. Describe results and observations of each QA activity conducted. Attach discipline-specific checklists/documentation used. All deficiencies noted must include reference to the specific regulation or requirement that was violated. For example: "Demolition explosives stored on site were not inventoried weekly in accordance with ESS paragraph 4.2 and Work Plan paragraph 5.4. Last inventory was conducted 3 weeks ago on xx Feb 2013."

Block 14. Select the type of deficiency, if any, observed. Use contract-specific definitions if available, or use the following general definitions:

a. Check the appropriate box.

b. Critical: A deficiency that is likely to result in hazardous or unsafe conditions for individuals using, maintaining, or depending upon the supplies or services; or is likely to prevent performance of a vital agency mission.

c. Major: A deficiency, other than critical, that is likely to result in failure of the supplies or services, or to materially reduce the usability of the supplies or services for their intended purpose.

d. Minor: A deficiency that is not likely to materially reduce the usability of the supplies or services for their intended purpose or is a departure from established standards having little bearing on the effective use or operation of the supplies or services.

Block 15. Date the USACE Representative signs.

Block 16. QA representative's signature.

Block 17. Contractor Representative's printed name.

Block 18. Date Contractor Representative signs.

Block 19. Contractor representative signature. Signature does not indicate concurrence with stated findings, only that contractor has received the report.

Block 20a. Contractor indicates action(s) taken to determine cause of the deficiency, action taken to correct immediate deficiency, and action taken to prevent a recurrence of the deficiency. Include dates of actions taken and a schedule for completion of planned actions.

Block 20b. Contractor representative's printed name, title, date signed, and signature.

Block 20c. Indicate government acceptance of contractor's actions to correct identified deficiencies.

Block 20d. Indicate negative government actions taken as a result of the deficiency.

Block 20e. Signature of contractor, PDT representative and contracting officer or COR indicating close out for all deficiencies indicated.

US ARMY CORPS OF ENGINEERS (USACE) **MUNITIONS RESPONSE** **QUALITY ASSURANCE REPORT (QAR) FORM** The proponent agency is CESO. *See instructions on page 2.*	1. REPORT NO. *(1,2,3, etc., for the Task Order (T.O.))* 6
2. USACE REPRESENTATIVE'S NAME James Britt	3. DATE ACTIVITY COMPLETED 2022-09-30

4. PROJECT NAME	5. PROJECT LOCATION	6. WEATHER CONDITIONS
MEC Remedial Action Unit 5	Former Impact Area, Fort Ord, Seaside, CA	Sunny and Clear.

7. CONTRACTOR	8. CONTRACT NUMBER	W9123820D0004
Kemron Environmental Services	9. T.O. NUMBER	CM01

10. DISTRIBUTED TO (*check boxes and insert individual's name*)

☒	a. District Program/Project Manager R. Curtis Payton II, PG	☐	b. Design Center
☐	c. Remedial Action District TM	☒	d. Contractor Steven M. Crane, PE, F.SAME, Kemron Senior PM

11. RESPONSE DUE DATE (*Based on type of nonconformance, IF REQUIRED*)

12. TYPE OF ACTIVITY CONDUCTED (*Include types of inspections/audits conducted, operations observed, etc.*)
Instrument Aided Surface Quality Assurance Inspection (QAI) of contractor completed grids in the Former Fort Ord Impact Area Munition Response Area (MRA), Track 3 Munitions Response Site (MRS), Unit 5, week ending 2022-09-30.

13. RESULTS AND OBSERVATIONS
Contractor completed and the following grids were Quality Assurance Inspected (QAI), for a surface removal phase only. The below listed grids are recommended for acceptance by USACE:

2022-09-26 - Former Fort Ord Impact Area MRA, Track 3 MRS, Unit 5: Demolition operations conducted at the "Demo Pit" area, as sited in the Unit 5 ESS. No issues noted.

2022-09-27 - Former Fort Ord Impact Area MRA, Track 3 MRS, Unit 5: A2G9D1, A2G9D2, A2G9D3, A2G9D4, A2G9D5, A2G9D6, A2G9D7, A2G9D8, A2G9D9, A2G9D0, A2G9E1, A2G9E2, A2G9E3, A2G9E4, A2G9E5, A2G9E6, A2G9E7, A2G9E8, A2G9E9, A2G9E0, A2G9F1, A2G9F2, A2G9F3, A2G9F4, A2G9F5, A2G9F6, A2G9F7, A2G9F8, A2G9F9, A2G9F0, A2G9G1, A2G9G2, A2G9G3, A2G9G4, A2G9G5, A2G9G6, A2G9G7, A2G9G8, A2G9G9, A2G9G0, A2G9H1, A2G9H2, A2G9H3, A2G9H4, A2G9H5, A2G9H6, A2G9H7, A2G9H8, A2G9H9, A2G9H0, A2G9I1, A2G9I2, A2G9I3, A2G9I4, A2G9I5, A2G9I6, A2G9I7, A2G9I8, A2G9I9, A2G9I0.

2022-09-28 - Former Fort Ord Impact Area MRA, Track 3 MRS, Unit 5: A2G9J1, A2G9J2, A2G9J3, A2G9J4, A2G9J5, A2G9J6, A2G9J7, A2G9J8, A2G9J9, A2G9J0, A2H9A1, A2H9A2, A2H9A3, A2H9A4, A2H9A5, A2H9A6, A2H9A7, A2H9A8, A2H9A9, A2H9A0, A2H9B1, A2H9B2, A2H9B3, A2H9B4, A2H9B5, A2H9B6, A2H9B7, A2H9B8, A2H9C1, A2H9C2, A2H9C3, A2H9C4, A2H9C5, A2H9C6, A2H9D1, A2H9D2, A2H9D3, A2H9D4.

2022-09-29 - Former Fort Ord Impact Area MRA, Track 3 MRS, Unit 5: A2G8C8, A2G8C9, A2G8C0, A2G8D7, A2G8D8, A2G8D9, A2G8D0, A2G8E6, A2G8E7, A2G8E8, A2G8E9, A2G8E0, A2G8F5, A2G8F6, A2G8F7, A2G8F8, A2G8F9, A2G8F0, A2G8G3, A2G8G4, A2G8G5, A2G8G6, A2G8G7, A2G8G8, A2G8G9, A2G8G0.

14. DEFICIENCY TYPE (*select one*) ☒ a. Not Applicable ☐ b. Critical ☐ c. Major ☐ d. Minor

☐ e. Other, *Specify*

15. DATE	16. USACE REPRESENTATIVE'S SIGNATURE
2022-09-30	BRITT.JAMES.CLIFTON.1056168920 Digitally signed by BRITT.JAMES.CLIFTON.1056168920 Date: 2022.09.29 10:26:30 -07'00'

17. CONTRACTOR REPRESENTATIVE'S NAME Brad Olson	18. DATE 2022-09-30

19. CONTRACTOR REPRESENTATIVE'S SIGNATURE (*indicating receipt of the QAR*) Bradley J Olson

20. **The Contractor will provide the following information to the Contract Specialist by the "Response Due" date above. Please contact the Contracting Officer's Representative (COR) or Project Manager if you have any questions.**

a. Contractor Response as to Cause and Actions Taken to Correct Current Condition and to Prevent Recurrence (*cite applicable quality control procedures or changes in plans, procedures, or practices*).

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(1) Printed Name	(2) Title	(3) Date Signed	(4) Signature
Brad Olson	SUXOS	2022-09-30	Bradley J Olson

c. Government Evaluation (*acceptance, partial acceptance, etc.*)	
d. Government Actions (*reduced payment, cure notice, show cause, other*)	

e. Close Out	Name	Title		Date (*YYYY-MM-DD*)	Signature
(1) Contractor Notified					
(2) USACE PDT Representative					
(3) Contracting Officer or COR					

INSTRUCTIONS FOR ENG FORM 6048

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Block 3. Date QA Activity completed.

Block 4. Project Name, i.e., "Camp Swampy (MRS-02).

Block 5. Project Location, i.e., "Smithville, Alaska".

Block 6. Weather conditions, if applicable.

Block 7. Contractor and/or subcontractor executing the work.

Block 8. Contract number.

Block 9. Task Order number.

Block 10. List by name all official recipients of the QAR. At a minimum, the District Program/Project Manager must be selected.

Block 11. Enter the date that the contractor is to respond, if applicable.

Block 12. List all QA-related activities, inspections, audits conducted, operations observed, etc. Include specific references to applicable government quality requirements, i.e., Quality Assurance Surveillance Plans, Department of Defense, Army, and/or USACE requirements, policy, guidance, etc., requiring the inspection/audit being conducted. For example: "Spot-checked inventory of demolition explosives as required by the project QASP and approved Explosives Safety Submission (ESS)."

Block 13. Describe results and observations of each QA activity conducted. Attach discipline-specific checklists/documentation used. All deficiencies noted must include reference to the specific regulation or requirement that was violated. For example: "Demolition explosives stored on site were not inventoried weekly in accordance with ESS paragraph 4.2 and Work Plan paragraph 5.4. Last inventory was conducted 3 weeks ago on xx Feb 2013."

Block 14. Select the type of deficiency, if any, observed. Use contract-specific definitions if available, or use the following general definitions:

a. Check the appropriate box.

b. Critical: A deficiency that is likely to result in hazardous or unsafe conditions for individuals using, maintaining, or depending upon the supplies or services; or is likely to prevent performance of a vital agency mission.

c. Major: A deficiency, other than critical, that is likely to result in failure of the supplies or services, or to materially reduce the usability of the supplies or services for their intended purpose.

d. Minor: A deficiency that is not likely to materially reduce the usability of the supplies or services for their intended purpose or is a departure from established standards having little bearing on the effective use or operation of the supplies or services.

Block 15. Date the USACE Representative signs.

Block 16. QA representative's signature.

Block 17. Contractor Representative's printed name.

Block 18. Date Contractor Representative signs.

Block 19. Contractor representative signature. Signature does not indicate concurrence with stated findings, only that contractor has received the report.

Block 20a. Contractor indicates action(s) taken to determine cause of the deficiency, action taken to correct immediate deficiency, and action taken to prevent a recurrence of the deficiency. Include dates of actions taken and a schedule for completion of planned actions.

Block 20b. Contractor representative's printed name, title, date signed, and signature.

Block 20c. Indicate government acceptance of contractor's actions to correct identified deficiencies.

Block 20d. Indicate negative government actions taken as a result of the deficiency.

Block 20e. Signature of contractor, PDT representative and contracting officer or COR indicating close out for all deficiencies indicated.

13. RESULTS AND OBSERVATIONS

Contractor completed data gap marking and the subsurface investigation of selected risk reduction targets in MRS-BLM Unit 5. The targets were Quality Assurance Inspected (QAI) at time of investigation as USACE OESS was present for target investigations. Anomaly description, investigation dig depth and final EM61-MK2 millivolt (mV) reading were all verified by the OESS at the time of investigation. Quality Control inspections were provided by Alexander Kostera, AECOM MMRP Project Geophysicist. The below listed 95 targets for subsurface risk reduction are recommended for acceptance by USACE:

Date:	Grid:	Unique ID:
2024-06-18	A2H8C2	A2H8C2_036
2024-06-18	A2H8C8	A2H8C8_041
2024-06-18	A2H8G3	A2H8G3_072
2024-06-18	A2H8G4	A2H8G4_078
2024-06-18	A2G8G3	A2G8G3_092
2024-06-18	A2G8J2	A2G8J2_085
2024-06-19	A3G1J8	A3G1J8_002
2024-06-19	A3G2I2	A3G2I2_006
2024-06-19	A3G2I2	A3G2I2_007
2024-06-19	A3G1J8	A3G1J8_008
2024-06-19	A3G1J8	A3G1J8_009
2024-06-19	A3G1I7	A3G1I7_012
2024-06-19	A3G1I0	A3G1I0_034
2024-06-19	A3G1I7	A3G1I7_037
2024-06-19	A3G1J8	A3G1J8_047
2024-06-19	A3G1I7	A3G1I7_055
2024-06-19	A2H9A0	A2H9A0_060
2024-06-19	A2H9C5	A2H9C5_065
2024-06-19	A3G1J7	A3G1J7_067
2024-06-19	A2G0F1	A2G0F1_068
2024-06-19	A3H1C2	A3H1C2_073
2024-06-19	A2H9A0	A2H9A0_079
2024-06-19	A2H0A1	A2H0A1_081
2024-06-19	A3G1J0	A3G1J0_086
2024-06-19	A2H9A9	A2H9A9_091
2024-06-19	A2H9A8	A2H9A8_093
2024-06-19	A2H0D7	A2H0D7_095
2024-06-20	A3F2I6	A3F2I6_004
2024-06-20	A2F0I2	A2F0I2_005
2024-06-20	A3F2I6	A3F2I6_011
2024-06-20	A2G0A1	A2G0A1_014
2024-06-20	A3F2I5	A3F2I5_016
2024-06-20	A2G0C1	A2G0C1_017
2024-06-20	A3F2J5	A3F2J5_019
2024-06-20	A3F2J4	A3F2J4_024
2024-06-20	A2F0I2	A2F0I2_026
2024-06-20	A2F0J2	A2F0J2_028
2024-06-20	A2F0J2	A2F0J2_029
2024-06-20	A2F0I2	A2F0I2_035
2024-06-20	A2F0I2	A2F0I2_040
2024-06-20	A2G9C0	A2G9C0_042
2024-06-20	A2F0I2	A2F0I2_044
2024-06-20	A3F2J5	A3F2J5_050
2024-06-20	A3F2I4	A3F2I4_051
2024-06-20	A2F0I1	A2F0I1_069
2024-06-20	A3F2I4	A3F2I4_070
2024-06-20	A2F0I2	A2F0I2_071
2024-06-20	A3F2I4	A3F2I4_076
2024-06-20	A2G0A1	A2G0A1_088
2024-06-20	A3F2I5	A3F2I5_094
2024-06-21	A2F0I5	A2F0I5_001
2024-06-21	A3F2I3	A3F2I3_015
2024-06-21	A3F2G5	A3F2G5_025
2024-06-21	A2F0I5	A2F0I5_027

14. DEFICIENCY TYPE (*select one*)	☒ a. Not Applicable	☐ b. Critical	☐ c. Major	☐ d. Minor
☐ e. Other, *Specify*				
15. DATE 2024-06-28	16. USACE REPRESENTATIVE'S SIGNATURE			
17. CONTRACTOR REPRESENTATIVE'S NAME Alexander Kostera				18. DATE 2024-06-28
19. CONTRACTOR REPRESENTATIVE'S SIGNATURE (*indicating receipt of the QAR*)				
20. **The Contractor will provide the following information to the Contract Specialist by the "Response Due" date above. Please contact the Contracting Officer's Representative (COR) or Project Manager if you have any questions.**				
a. Contractor Response as to Cause and Actions Taken to Correct Current Condition and to Prevent Recurrence (*cite applicable quality control procedures or changes in plans, procedures, or practices*).				
b. Contractor Representative's Authentication (*form must be signed before returning*)				
(1) Printed Name Alexander Kostera	(2) Title AECOM MMRP QC Geophysicist	(3) Date Signed 2024-06-28	(4) Signature	
c. Government Evaluation (*acceptance, partial acceptance, etc.*)				
d. Government Actions (*reduced payment, cure notice, show cause, other*)				

e. Close Out	Name	Title	Date (*YYYY-MM-DD*)	Signature
(1) Contractor Notified				
(2) USACE PDT Representative				
(3) Contracting Officer or COR				

INSTRUCTIONS FOR ENG FORM 6048

Block 1. Report number.

Block 2. Name of USACE representative conducting the quality assurance (QA) activity.

Block 3. Date QA Activity completed.

Block 4. Project Name, i.e., “Camp Swampy (MRS-02).

Block 5. Project Location, i.e., “Smithville, Alaska”.

Block 6. Weather conditions, if applicable.

Block 7. Contractor and/or subcontractor executing the work.

Block 8. Contract number.

Block 9. Task Order number.

Block 10. List by name all official recipients of the QAR. At a minimum, the District Program/Project Manager must be selected.

Block 11. Enter the date that the contractor is to respond, if applicable.

Block 12. List all QA-related activities, inspections, audits conducted, operations observed, etc. Include specific references to applicable government quality requirements, i.e., Quality Assurance Surveillance Plans, Department of Defense, Army, and/or USACE requirements, policy, guidance, etc., requiring the inspection/audit being conducted. For example: “Spot-checked inventory of demolition explosives as required by the project QASP and approved Explosives Safety Submission (ESS).”

Block 13. Describe results and observations of each QA activity conducted. Attach discipline-specific checklists/documentation used. All deficiencies noted must include reference to the specific regulation or requirement that was violated. For example: “Demolition explosives stored on site were not inventoried weekly in accordance with ESS paragraph 4.2 and Work Plan paragraph 5.4. Last inventory was conducted 3 weeks ago on xx Feb 2013.”

Block 14. Select the type of deficiency, if any, observed. Use contract-specific definitions if available, or use the following general definitions:

a. Check the appropriate box.

b. Critical: A deficiency that is likely to result in hazardous or unsafe conditions for individuals using, maintaining, or depending upon the supplies or services; or is likely to prevent performance of a vital agency mission.

c. Major: A deficiency, other than critical, that is likely to result in failure of the supplies or services, or to materially reduce the usability of the supplies or services for their intended purpose.

d. Minor: A deficiency that is not likely to materially reduce the usability of the supplies or services for their intended purpose or is a departure from established standards having little bearing on the effective use or operation of the supplies or services.

Block 15. Date the USACE Representative signs.

Block 16. QA representative’s signature.

Block 17. Contractor Representative’s printed name.

Block 18. Date Contractor Representative signs.

Block 19. Contractor representative signature. Signature does not indicate concurrence with stated findings, only that contractor has received the report.

Block 20a. Contractor indicates action(s) taken to determine cause of the deficiency, action taken to correct immediate deficiency, and action taken to prevent a recurrence of the deficiency. Include dates of actions taken and a schedule for completion of planned actions.

Block 20b. Contractor representative’s printed name, title, date signed, and signature.

Block 20c. Indicate government acceptance of contractor’s actions to correct identified deficiencies.

Block 20d. Indicate negative government actions taken as a result of the deficiency.

Block 20e. Signature of contractor, PDT representative and contracting officer or COR indicating close out for all deficiencies indicated.

US ARMY CORPS OF ENGINEERS (USACE)
MUNITIONS RESPONSE
QUALITY ASSURANCE REPORT (QAR) FORM
The proponent agency is CESO. *See instructions on page 2.*

1. REPORT NO. *(1,2,3, etc., for the Task Order (T.O.))*: 1

2. USACE REPRESENTATIVE'S NAME: James Britt

3. DATE ACTIVITY COMPLETED: 2024-06-24

4. PROJECT NAME: MRS-BLM Unit 5 Subsurface Risk Reduction

5. PROJECT LOCATION: Fort Ord, Former Impact Area, Seaside, CA

6. WEATHER CONDITIONS: Sunny.

7. CONTRACTOR: Kemron

8. CONTRACT NUMBER: W9123820D0004

9. T.O. NUMBER: CM01

10. DISTRIBUTED TO (*check boxes and insert individual's name*)

- ☒ a. District Program/Project Manager: Kevin J. Siemann
- ☐ b. Design Center
- ☐ c. Remedial Action District TM
- ☒ d. Contractor: Stephen Crane, PE, F.SAME, Kemron Senior PM

11. RESPONSE DUE DATE (*Based on type of nonconformance, IF REQUIRED)*

12. TYPE OF ACTIVITY CONDUCTED (*Include types of inspections/audits conducted, operations observed, etc.)*

Instrument Aided (EM61-MK2) Subsurface Quality Assurance Inspection (QAI) of contractor completed risk reduction targets, located in MRS-BLM Unit 5, selected for investigation.

Appendix F

INERT / DEMILITARIZATION / CHAIN OF CUSTODY CERTIFICATION FOR NON-HAZARDOUS AEDA / RANGE RESIDUE SCRAP

Load No. 30

GENERAL

1. Releasing Generators (RG) Name and Mailing Address	1a. RG's Phone No.	2. RG's Site Mana
KEMRON Environmental Services, Inc. 4522 Joe Lloyd Way, Monterey, CA 93944	831-905-9960	Bradley J Olson
3. Releasing Generators (RG) Project Name and Location	**3a. RG Project Phone No.**	**4. RG's SUXOS**
KEMRON Environmental Services, Inc. 4522 Joe Lloyd Way, Monterey, CA 93944	831-905-9960	Bradley J. Olson
5. Transporter Name and Mailing Address	**5a. Transporter Phone No.**	**6. Dispatcher Name**
Avenue Logistics, LLC 325 West Ohion Street, 3rd Floor, Chicago, IL 60654	888-602-4273, Ext 3	Jakub Benebek

RELEASING GENERATOR

7. Processor / Recycler / Demilitarization - Qualified Recycler	7a. QR Phone	8. QRQC's Manager
DEMIL METALS/AAR 1705 COTTAGE GROVE AVE. FORD HEIGHTS, IL 60411	847-790-6394	Mike Schaffer

9. Box No.	10. Seal No.'s		11. Gross Weight	12. Tare Weight	13. Net Weight
1M2MDBAAXRS012212	1333899	N/A	6,000		
	N/A	N/A			
	N/A	N/A			

14. Description	15. Material Type	16. Units (Wt., Volume)
4 Gaylord Boxes containing mixed steel	Munitions Debris, Inert - Mixed Steel (Expended)	

Inert Certification: **"I CERTIFY AND VERIFY THAT THE AEDA RESIDUE, RANGE RESIDUE AND/OR EXPLOSIVE CONTAMINATED PROPERTY LISTED HAS BEEN 100 PERCENT INSPECTED BY ME AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, ARE INERT AND/OR FREE OF EXPLOSIVES OR OTHER DANGEROUS MATERIALS"**

17. Inspector / Certifier KEMRON Project UXO/QC

Print/Type Name	Signature	Month/Day/Year
Bruce McClain	Bruce M. Cl	29-Jul-24

18. Inspector / Certifier Site KEMRON Senior UXO Supervisor (SUXOS)

Print/Type Name	Signature	Month/Day/Year
Bradley J. Olson	Bradley J. Olson	29-Jul-24

19. Material Released to the Transporter By KEMRON RG's Site Manager

RELEASED BY: Print/Type Name	Signature	Month/Day/Year
Bradley J Olson	Bradley J Olson	29-Jul-24

TRANSPORTER

20. Transporter: I ACKNOWLEDGE THE RECEIPT OF MATERIAL (Receiving Signature Verifies that Seals are Intact)

RECEIVED BY: Print/Type Name / Company	Signature	Month/Day/Year
GOCE GLIGOROVSKI DSLE LOGISTICS	G. Gligorovski	29 / 7 / 24

21. Material Released to DEMIL Metals By Transporter

RELEASED BY: Print/Type Name / Company	Signature	Month/Day/Year
		/ /

RECEIVING PROCESSOR - RECYCLER

22. Storage Manager: I ACKNOWLEDGE THE RECEIPT OF MATERIAL (Receiving Signature Verifies that Seals are Intact)

RECEIVED BY: Print/Type Name / Company	Signature	Month/Day/Year
		/ /

23. Material Released CRRRT to new CRRRT(if needed)

RELEASED BY: Print/Type Name	Signature	Month/Day/Year
		/ /

24. Current CRRRT: I ACKNOWLEDGE THE RECEIPT OF MATERIAL

RECEIVED BY: Print/Type Name	Signature	Month/Day/Year
		/ /

Demilitarization / Destruction Certification: **"I CERTIFY THAT EACH ITEM OR ITEMS LISTED HEREON WERE DEMILITARIZED / DESTROYED, SO AS TO NO LONGER RESEMBLE AEDA / ORDNANCE, BEYOND THE REQUIREMENTS LISTED IN DoD 4160.21-M-1.**

25. Qualified Recycling Manager

Print/Type Name	Signature	Month/Day/Year
		/ /

26. List Discrepancy Indication Here

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

PREVIOUS EDITION MAY BE USED

DI COD E M	RI FROM	M&S	UI NS LT	QUANTITY	SER	SUPPLE-MENTARY ADDRESS	SIG	FUND	DIS-TRI-BU-TION	PRO-JECT	PRI	REQD	DEL	DATE	ADV	RI	O/P	COND	MGT	UNIT PRICE DOLLARS	UNIT PRICE CTS	DOLLARS	CTS
			EA	000001																			

1. TOTAL PRICE

2. SHIP FROM
KEMRON;Fort Ord
4522 Joe Lloyd Way
Monterey, CA 93944

3. SHIP TO
Demil Metals, Inc
601 N.Skokie Blvd
#207; Northbrook,
IL 60062

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

17. ITEM NOMENCLATURE
Munition Debris Inert - Mixed Steel

18. TY CONT	19. NO CONT	20. TOTAL WEIGHT	21. TOTAL CUBE
		5845lbs	

22. RECEIVED BY
G. Gligorovski
Goce Gligorovski

23. DATE RECEIVED
07-29-2024

24. DOCUMENT NUMBER & SUFFIX (30-44)

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

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

TRL Vin1M2MDBAAXRS012212 , 53 Ft. Box Body Trailer; 4 GAYLORD Boxes; USACE / Fort Ord, CA / KEMRON / 00030
Seal # 1333899

27. ADDITIONAL DATA

"This certifies that the material listed has been 100 percent properly inspected, and to the best of our knowledge and belief, is free of explosive hazards, engine fluids, illuminating dials and other visible liquid hazardous, toxic, and radioactive waste materials."

Bradley J. Olson 7/29/24

Certified By: Brad Olson
Senior UXO Supervisor - KEMRON
MEC Removal and Soil Remediation Project
Fort Ord, CA Phone 831-905-9966

BRITT.JAMES.CLIFTON.1056168920
Digitally signed by BRITT.JAMES.CLIFTON.1056168920
Date: 2024.07.29 11:51:42 -07'00'

Verified By: James Britt
OESS
USACE - Sacramento
Fort Ord, CA Phone 831-521-3720

FormFlow (DLA)

ED 1. TOTAL PRICE 2. SHIP FROM 3. SHIP TO

Date: 7/29/2024

Bill of Lading - Short Form - Not Negotiable

Ship From

Name: **FORT ORD**
Address: 4522 JOE LLOYD WAY
City/State/Zip: MONTEREY, CA 93944
Tel: () - FOB: ☐

Bill of Lading Number: **70623609**
Customer Ref:

Ship To

Name: **DEMIL METALS/AAR** Location: ____
Address: 1705 COTTAGE GROVE AVE
City/State/Zip: FORD HEIGHTS, IL 60411
Tel: (847) 790-6394 FOB: ☐

Carrier Name: YUGOS LOGISTICS LLC
Trailer number:
Serial number(s):
Container number:
Seal number:

Third Party Freight Charges Bill to

Name: **Avenue Logistics, LLC** Tel: 888-602-4273 ext.3
Address: 325 West Ohio Street 3rd Floor
City/State/Zip: Chicago, IL 60654
Fax: 312-661-9125

SCAC: YLLO
Carrier Pro:

Special Instructions:

Freight Charge Terms (Freight charges are prepaid unless marked otherwise):
Prepaid ___ Collect ___ 3rd Party X
____Master bill of lading with attached underlying bills of lading.

Customer Order Information

Customer Order No.	# of Packages	Weight	Pallet/Slip (circle one)		Additional Shipper Information	
Order Number:	4.00	6000.00 lbs	Y	N	Ship Ref:	
			Y	N	Pickup From:	07/29/2024 06:30 AM
			Y	N	Pickup To:	07/29/2024 04:00 PM
			Y	N	Delivery Info	
			Y	N	Cons Ref:	
			Y	N	Delivery From:	08/02/2024 07:00 AM
			Y	N	Delivery To:	08/02/2024 03:00 PM
Grand Total	4	6000.00 lbs				

Carrier Information

Handling Unit Qty	Handling Unit Type	Cartons Qty	Cartons Type	Weight	DIMS	HazMat	Commodity Description	LTL Only NMFC No.	LTL Only Class
							Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation with ordinary care. See Section 2(e) of NMFC item 360		
		4.00	PALLET	6000.00	40x48x48		Metal Brass on Pallets		

Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property as follows: The agreed or declared value of the property is specifically stated by the shipper to be not exceeding _____ per _____

COD Amount: $ _____
Terms:
Collect _____ Prepaid _____ Cust. check acceptable ____

Note: Liability limitation for loss or damage in this shipment may be applicable. See 49 USC 14706(c)(1)(A) and (B).

Received, subject to individually determined rates or contracts that have been agreed upon in writing between the carrier and shipper, if applicable, otherwise to the rates, classifications, and rules that have been established by the carrier and are available to the shipper, on request, and to all applicable state and federal regulations.

The carrier shall not make delivery of this shipment without payment of charges and all other lawful fees.
Shipper Signature Bradley J Olson

Shipper Signature/Date
Bradley J Olson 7/29/24
This is to certify that the above named materials are properly classified, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the DOT.

Trailer Loaded By:
___ Shipper
✓ Driver

Freight Counted By:
____ Shipper
____ Driver/pallets
✓4 Driver/pieces

Carrier Signature/Pickup Date
G. Olszewski
Carrier acknowledges receipt of packages and required placards. Carrier certifies emergency response information was made available and/or carrier has the DOT emergency response guidebook or equivalent documentation in the vehicle. Property described above is received in good order, except as noted.

Appendix G
Examples of DGM Data Forms

KEMRON ENVIRONMENTAL SERVICES

Grid Block Processing Report

NAEVA GEOPHYSICS INC. THE LEADER IN SUBSURFACE DETECTION
Subsurface Geophysical Surveys

Grid Block ID:	A3H1E01	**Grids Collected:**	A3H1E0,A3H1F0,A3H1F8,A3H1F9,A3H2C1,A3H2C2,A3H2D1,A3H2D2,A3H2E1,A3H2E2,A3H2F1,A3H2F2		
Date of Survey:	9/26/2016	**Survey Instrument:**	Array 2	**Re-Survey?:**	N
Start Time:	9/22/2016 9:35:00 AM	**Team ID:**	GEO_1	**QC Survey?:**	N
End Time:	9/26/2016 12:05:00 PM	**Unit ID:**	23	**Percent Covered in QC Survey:**	0

Processing Information

Processing Date:	10/3/2016	**Processing Operator:**	James Hayslett
Processed with Oasis montaj	Yes	**Geosoft Database Name**	A3H1E01.gdb
Lag Correction Performed?	Yes	**Lag Correction Value:**	5
Drift Correction Performed?	Yes	**Drift Correct Method:**	Windowed statistical leveling (Channel/High % texcluded/Low % excluded/Window length): Ch1/80/0/75-250, Ch2/75/0/75-250, Ch3/70/0/75-250, Ch4/65/0/75-250
De-Spiking Performed?	Yes	**De-Spiking Info:**	Performed as needed.
Line Breaking Performed?	Yes	**Line Breaking Info:**	Performed as needed.
Data Coordinates Translated?	Yes	**Data Projection:**	NAD83 / California zone 4 (ftUS)

Processing Comments:

Sections of data without GPS RTK fix are DGPS and the positional data is useable. High levels of response across entire grid block. Areas of sautrated response present. Large gaps present due to steep slopes, trees, and gullies. Data originally collected on 09/22/2016. Gap fill collected on 09/26/2016.

Data Package Files: **Header Added to Processed File?** Yes

A3H1E0.gdb, A3H1E0.map, A3H1E0.pdf, A3H1E0.ply, A3H1E0.tif, A3H1E0_AOI.ply, A3H1E0_Ch_Sum.grd, A3H1E0_Processed.XYZ, Gaps_A3H1E0.cpg, Gaps_A3H1E0.dbf, Gaps_A3H1E0.prj, Gaps_A3H1E0.shp, Gaps_A3H1E0.shp.GeosoftMeta, Gaps_A3H1E0.shx, A3H1F0.gdb, A3H1F0.map, A3H1F0.pdf, A3H1F0.ply, A3H1F0.tif, A3H1F0_AOI.ply, A3H1F0_Ch_Sum.grd, A3H1F0_Processed.XYZ, Gaps_A3H1F0.cpg, Gaps_A3H1F0.dbf, Gaps_A3H1F0.prj, Gaps_A3H1F0.shp, Gaps_A3H1F0.shp.GeosoftMeta, Gaps_A3H1F0.shx, A3H1F8.gdb, A3H1F8.map, A3H1F8.pdf, A3H1F8.ply, A3H1F8.tif, A3H1F8_AOI.ply, A3H1F8_Ch_Sum.grd, A3H1F8_Processed.XYZ, A3H1F9.gdb, A3H1F9.map, A3H1F9.pdf, A3H1F9.ply, A3H1F9.tif, A3H1F9_AOI.ply, A3H1F9_Ch_Sum.grd, A3H1F9_Processed.XYZ, Gaps_A3H1F9.cpg, Gaps_A3H1F9.dbf, Gaps_A3H1F9.prj, Gaps_A3H1F9.shp, Gaps_A3H1F9.shp.GeosoftMeta, Gaps_A3H1F9.shx, A3H2C1.gdb, A3H2C1.map, A3H2C1.pdf, A3H2C1.ply, A3H2C1.tif, A3H2C1_AOI.ply, A3H2C1_Ch_Sum.grd, A3H2C1_Processed.XYZ, Gaps_A3H2C1.cpg, Gaps_A3H2C1.dbf, Gaps_A3H2C1.prj, Gaps_A3H2C1.shp, Gaps_A3H2C1.shp.GeosoftMeta, Gaps_A3H2C1.shx, A3H2C2.gdb, A3H2C2.map, A3H2C2.pdf, A3H2C2.ply, A3H2C2.tif, A3H2C2_AOI.ply, A3H2C2_Ch_Sum.grd, A3H2C2_Processed.XYZ, Gaps_A3H2C2.cpg, Gaps_A3H2C2.dbf, Gaps_A3H2C2.prj, Gaps_A3H2C2.shp, Gaps_A3H2C2.shp.GeosoftMeta, Gaps_A3H2C2.shx, A3H2D1.gdb, A3H2D1.map, A3H2D1.pdf, A3H2D1.ply, A3H2D1.tif, A3H2D1_AOI.ply, A3H2D1_Ch_Sum.grd, A3H2D1_Processed.XYZ, Gaps_A3H2D1.cpg, Gaps_A3H2D1.dbf, Gaps_A3H2D1.prj, Gaps_A3H2D1.shp, Gaps_A3H2D1.shp.GeosoftMeta, Gaps_A3H2D1.shx, A3H2D2.gdb, A3H2D2.map, A3H2D2.pdf, A3H2D2.ply, A3H2D2.tif, A3H2D2_AOI.ply, A3H2D2_Ch_Sum.grd, A3H2D2_Processed.XYZ, Gaps_A3H2D2.cpg, Gaps_A3H2D2.dbf, Gaps_A3H2D2.prj, Gaps_A3H2D2.shp, Gaps_A3H2D2.shp.GeosoftMeta, Gaps_A3H2D2.shx, A3H2E1.gdb, A3H2E1.map, A3H2E1.pdf, A3H2E1.ply, A3H2E1.tif, A3H2E1_AOI.ply, A3H2E1_Ch_Sum.grd, A3H2E1_Processed.XYZ, Gaps_A3H2E1.cpg, Gaps_A3H2E1.dbf, Gaps_A3H2E1.prj, Gaps_A3H2E1.shp, Gaps_A3H2E1.shp.GeosoftMeta, Gaps_A3H2E1.shx, A3H2E2.gdb, A3H2E2.map, A3H2E2.pdf, A3H2E2.ply, A3H2E2.tif, A3H2E2_AOI.ply, A3H2E2_Ch_Sum.grd, A3H2E2_Processed.XYZ, Gaps_A3H2E2.cpg, Gaps_A3H2E2.dbf, Gaps_A3H2E2.prj, Gaps_A3H2E2.shp, Gaps_A3H2E2.shp.GeosoftMeta, Gaps_A3H2E2.shx, A3H2F1.gdb, A3H2F1.map, A3H2F1.pdf, A3H2F1.ply, A3H2F1.tif, A3H2F1_AOI.ply, A3H2F1_Ch_Sum.grd, A3H2F1_Processed.XYZ, Gaps_A3H2F1.cpg, Gaps_A3H2F1.dbf, Gaps_A3H2F1.prj, Gaps_A3H2F1.shp, Gaps_A3H2F1.shp.GeosoftMeta, Gaps_A3H2F1.shx, A3H2F2.gdb, A3H2F2.map, A3H2F2.pdf, A3H2F2.ply, A3H2F2.tif, A3H2F2_AOI.ply, A3H2F2_Ch_Sum.grd, A3H2F2_Processed.XYZ

Measurement Performance Criteria

Coverage: **Category:** Cat B TA

Lane Spacing (ft):	3	Requirement (%)	98	**% at Lane Spacing:**	99.97	**Status:** Pass
Design Spacing (ft)	2	Requirement (%)	95	**% at Project Design Spacing:**	98.37	**Status:** Pass

Along Track Sampling: 98 % <= 0.65 ft **Mean :** 0.17 ft **% within Tolerance:** 100 **Status:** Pass

Velocity: 95 % not to exceed 4 mph **Mean:** 2.03 mph **% within Tolerance:** 99.95 **Status:** Pass

GPS Quality: **Percent RTK Fix:** 98.22 **Status:** Pass

Repeat Lines: **Line Numbers:** None **Status:** Pass

Daily Measurement Performance Criteria

Static	98	% of background readings within +/-	2	mV for ALL channels
	98	% of spike readings within +/-	10	% of expected baseline mV for ALL channels
Cable Shake	98	% of readings within +/-	2	mV for ALL channels
Personnel	98	% of readings within +/-	2	mV for ALL channels
Towed Vehicle	98	% of readings within +/-	2	mV for ALL channels
IVS	98	% of background readings within +/-	3	mV for ALL channels
		Item response within +/-	25	% of expected value for ALL channels
		Item position within	0.8202	ft of actual location
GPS Check		GPS measurement within	0.25	ft of control point location

DateCollected: 9/22/2016 **Team ID:** GEO_1 **Survey Instrument:** Array 2 **Instrument Warm-up Time:** 15

Weather: windy **Static Tests File Name:** 0922161QC1

IVS Test File Name: 0922161IVS1 **IVS Location:** Unit 4 IVS Mod2 **GPS Check File Name:** 0922161GPS

QC Survey Notes: 12.6/12.7/12.4

QC Tests

		Response (mV)				Percent in Tolerance				Status			
		Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4
Sensor ID: *1*													
Static Pre-Line ID:	0	0.21	0.01	0.07	0.04	100	100	100	100				
Static Spike-Line ID:	1	1184.38	850.29	521.22	258.1	100	100	100	100				
Static Post-Line ID:	2	0.19	-0.19	-0.14	-0.14	100	100	100	100				
Comments:										Pass	Pass	Pass	Pass
Sensor ID: *2*													
Static Pre-Line ID:	0.1	-0.07	-0.17	-0.06	-0.03	100	100	100	100				
Static Spike-Line ID:	1.1	1211.75	873.16	535.92	267.82	100	100	100	100				
Static Post-Line ID:	2.1	-0.71	-0.49	-0.18	-0.08	100	100	100	100				
Comments:										Pass	Pass	Pass	Pass
Sensor ID: *3*													
Static Pre-Line ID:	0.2	0.04	-0.11	-0.08	-0.04	100	100	100	100				
Static Spike-Line ID:	1.2	1271.43	909.82	557.28	276.87	100	100	100	100				
Static Post-Line ID:	2.2	0.12	-0.2	-0.27	-0.16	100	100	100	100				
Comments:										Pass	Pass	Pass	Pass
Sensor ID: *1*													
Cable Shake Line ID:	3	0.08	-0.25	-0.19	-0.16	100	100	100	100				
Comments:										Pass	Pass	Pass	Pass
Sensor ID: *2*													
Cable Shake Line ID:	3.1	-0.97	-0.64	-0.22	-0.09	100	100	100	100				
Comments:										Pass	Pass	Pass	Pass
Sensor ID: *3*													
Cable Shake Line ID:	3.2	0.07	-0.43	-0.42	-0.3	100	100	100	100				
Comments:										Pass	Pass	Pass	Pass

Sensor ID: *1*

Tow Vehicle Line ID:	4	0.07	-0.3	-0.22	-0.15	100	100	100	100	Pass	Pass	Pass	Pass
Comments:													

Sensor ID: *2*

Tow Vehicle Line ID:	4.1	-1.18	-0.89	-0.51	-0.31	100	100	100	100	Pass	Pass	Pass	Pass
Comments:													

Sensor ID: *3*

Tow Vehicle Line ID:	4.2	0.08	-0.44	-0.45	-0.31	100	100	100	100	Pass	Pass	Pass	Pass
Comments:													

IVS Tests

		Response (mV)				Percent in Tolerance				Status			
		Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4
Sensor ID: *1*													
Background Line ID:	1	1.2	0.9	0.5	0.3	100	100	100	100	Pass	Pass	Pass	Pass
Comments:													
Sensor ID: *2*													
Background Line ID:	1.1	0.99	0.69	0.39	0.33	100	100	100	100	Pass	Pass	Pass	Pass
Comments:													
Sensor ID: *3*													
Background Line ID:	1.2	1.02	0.69	0.36	0.29	100	100	100	100	Pass	Pass	Pass	Pass
Comments:													

		Item Response (mV)				Delta Response (%)				Item Pos	Status				
		Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4	Offset	Ch1	Ch2	Ch3	Ch4	Pos
Sensor ID: *1*															
Test Item: *IVS15* **Line ID:**	0	253.41	177.88	100.70	50.06	2.61	2.08	1.94	1.98	0.16	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS18* **Line ID:**	0	279.17	197.34	112.12	55.83	8.24	7.97	7.72	8.16	0.28	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS21* **Line ID:**	0	43.54	35.25	23.95	14.05	12.19	12.61	12.98	13.28	0.12	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS24* **Line ID:**	0	69.04	42.73	18.90	6.08	13.15	14.17	11.76	16.29	0.19	Pass	Pass	Pass	Pass	Pass
Comments:															
Sensor ID: *2*															
Test Item: *IVS13* **Line ID:**	0.1	233.61	162.34	92.78	45.22	3.59	2.57	2.34	1.56	0.08	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS16* **Line ID:**	0.1	231.06	161.62	90.33	44.51	5.16	4.68	2.55	3.29	0.23	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS19* **Line ID:**	0.1	37.87	29.24	20.30	11.61	10.86	6.98	8.44	9.03	0.16	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS22* **Line ID:**	0.1	75.00	47.21	22.31	7.52	15.12	16.57	17.11	20.32	0.14	Pass	Pass	Pass	Pass	Pass
Comments:															
Sensor ID: *3*															
Test Item: *IVS14* **Line ID:**	0.2	204.19	142.34	79.14	39.62	-5.74	-5.77	-6.77	-6.99	0.35	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS17* **Line ID:**	0.2	192.65	134.81	75.19	37.84	-3.40	-2.84	-2.93	-1.90	0.30	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS20* **Line ID:**	0.2	30.80	25.12	17.59	10.74	4.19	4.97	3.87	3.27	0.20	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS23* **Line ID:**	0.2	54.30	33.85	14.66	4.25	5.08	7.50	2.50	-8.84	0.45	Pass	Pass	Pass	Pass	Pass
Comments:															

GPS Function Check

Point Location ID: Unit 4 IVS **Total Offset (ft):** 0.05324 **Status:** Pass

Comments:

DateCollected: 9/22/2016 **Team ID:** GEO_1 **Survey Instrument:** Array 2 **Instrument Warm-up Time:** 15

Weather: **Static Tests File Name:** 0922161QC2

IVS Test File Name: 0922161IVS2 **IVS Location:** Unit 4 IVS Mod2 **GPS Check File Name:**

QC Survey Notes: 12.0/12.1/12.0

QC Tests

		Response (mV)				Percent in Tolerance				Status			
		Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4
Sensor ID: *1*													
Static Pre-Line ID:	0	-0.08	-0.04	-0.02	-0.02	100	100	100	100				
Static Spike-Line ID:	1	1130.89	812.99	499.09	247.22	100	100	100	100				
Static Post-Line ID:	2	-0.15	-0.13	-0.04	-0.01	100	100	100	100				
Comments:										Pass	Pass	Pass	Pass
Sensor ID: *2*													
Static Pre-Line ID:	0.1	-0.07	0.02	0.01	0.02	100	100	100	100				
Static Spike-Line ID:	1.1	1140.13	823.04	506.17	253.19	100	100	100	100				
Static Post-Line ID:	2.1	0	0.2	0.26	0.19	99.82	100	100	100				
Comments:										Pass	Pass	Pass	Pass
Sensor ID: *3*													
Static Pre-Line ID:	0.2	-0.03	-0.06	-0.1	-0.02	100	100	100	100				
Static Spike-Line ID:	1.2	1197.3	858.27	526.41	261.68	100	100	100	100				
Static Post-Line ID:	2.2	0.04	-0.24	-0.19	-0.11	100	100	100	100				
Comments:										Pass	Pass	Pass	Pass

IVS Tests

		Response (mV)				Percent in Tolerance				Status			
		Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4
Sensor ID: *1*													
Background Line ID:	1	1.31	0.91	0.51	0.28	100	100	100	100	Pass	Pass	Pass	Pass
Comments:													
Sensor ID: *2*													
Background Line ID:	1.1	1.24	0.8	0.5	0.39	100	100	100	100	Pass	Pass	Pass	Pass
Comments:													
Sensor ID: *3*													
Background Line ID:	1.2	1.1	0.65	0.34	0.26	100	100	100	100	Pass	Pass	Pass	Pass
Comments:													

		Item Response (mV)				Delta Response (%)				Item Pos	Status				
		Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4	Offset	Ch1	Ch2	Ch3	Ch4	Pos
Sensor ID: *1*															
Test Item: *IVS15* **Line ID:**	0	224.44	158.64	90.38	45.24	-9.12	-8.96	-8.51	-7.84	0.12	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS18* **Line ID:**	0	246.46	175.27	99.18	49.39	-4.45	-4.10	-4.71	-4.32	0.20	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS21* **Line ID:**	0	40.77	33.60	22.71	13.53	5.07	7.33	7.11	9.12	0.16	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS24* **Line ID:**	0	61.35	38.03	17.20	5.60	0.54	1.60	1.69	7.13	0.12	Pass	Pass	Pass	Pass	Pass
Comments:															
Sensor ID: *2*															
Test Item: *IVS13* **Line ID:**	0.1	210.25	147.78	84.02	41.72	-6.77	-6.63	-7.32	-6.30	0.27	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS16* **Line ID:**	0.1	206.87	145.20	82.56	40.46	-5.85	-5.95	-6.27	-6.11	0.04	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS19* **Line ID:**	0.1	34.22	27.31	18.55	10.78	0.17	-0.10	-0.88	1.28	0.05	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS22* **Line ID:**	0.1	67.28	41.95	19.96	6.55	3.27	3.58	4.77	4.89	0.18	Pass	Pass	Pass	Pass	Pass
Comments:															
Sensor ID: *3*															
Test Item: *IVS14* **Line ID:**	0.2	191.44	132.94	74.42	37.31	-11.62	-12.00	-12.33	-12.42	0.44	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS17* **Line ID:**	0.2	180.99	125.24	69.91	34.51	-9.24	-9.74	-9.74	-10.54	0.25	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS20* **Line ID:**	0.2	29.11	23.78	16.77	10.25	-1.53	-0.64	-0.96	-1.48	0.26	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS23* **Line ID:**	0.2	51.79	31.47	14.40	4.54	0.21	-0.06	0.73	-2.62	0.55	Pass	Pass	Pass	Pass	Pass
Comments:															

DateCollected: 9/26/2016 **Team ID:** GEO_1 **Survey Instrument:** Array 2 **Instrument Warm-up Time:** 15

Weather: dry;sunny **Static Tests File Name:** 0926161QC1

IVS Test File Name: 0926161IVS1 **IVS Location:** Unit 4 IVS Mod2 **GPS Check File Name:** 0926161GPS

QC Survey Notes: 12.6/12.7/12.6

QC Tests

		Response (mV)				Percent in Tolerance				Status			
		Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4
Sensor ID: *1*													
Static Pre-Line ID:	0	-0.1	0.04	0	-0.02	100	100	100	100				
Static Spike-Line ID:	1	1201.28	855.65	518.09	251.09	100	100	100	100				
Static Post-Line ID:	2	-0.06	-0.15	-0.15	-0.11	100	100	100	100				
Comments:										Pass	Pass	Pass	Pass
Sensor ID: *2*													
Static Pre-Line ID:	0.1	-0.22	-0.08	-0.01	-0.05	100	100	100	100				
Static Spike-Line ID:	1.1	1193.37	854.96	519.59	254.99	100	100	100	100				
Static Post-Line ID:	2.1	-0.65	-0.25	-0.03	-0.01	100	100	100	100				
Comments:										Pass	Pass	Pass	Pass
Sensor ID: *3*													
Static Pre-Line ID:	0.2	-0.11	-0.01	-0.03	-0.03	100	100	100	100				
Static Spike-Line ID:	1.2	1274.23	905.6	547.86	266.77	100	100	100	100				
Static Post-Line ID:	2.2	-0.19	-0.16	-0.1	-0.02	100	100	100	100				
Comments:										Pass	Pass	Pass	Pass
Sensor ID: *1*													
Cable Shake Line ID:	3	-0.28	-0.3	-0.21	-0.15	100	100	100	100				
Comments:										Pass	Pass	Pass	Pass
Sensor ID: *2*													
Cable Shake Line ID:	3.1	-0.79	-0.47	-0.17	-0.2	100	100	100	100				
Comments:										Pass	Pass	Pass	Pass
Sensor ID: *3*													
Cable Shake Line ID:	3.2	-0.31	-0.27	-0.14	-0.01	100	100	100	100				
Comments:										Pass	Pass	Pass	Pass
Sensor ID: *1*													
Tow Vehicle Line ID:	4	-0.59	-0.44	-0.26	-0.16	100	100	100	100				
Comments:										Pass	Pass	Pass	Pass
Sensor ID: *2*													
Tow Vehicle Line ID:	4.1	-1.01	-0.56	-0.23	-0.12	100	100	100	100				
Comments:										Pass	Pass	Pass	Pass
Sensor ID: *3*													
Tow Vehicle Line ID:	4.2	-0.55	-0.36	-0.13	0	100	100	100	100				
Comments:										Pass	Pass	Pass	Pass

IVS Tests

		Response (mV)				Percent in Tolerance				Status			
		Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4
Sensor ID: *1*													
Background Line ID:	1	1.15	0.69	0.46	0.26	100	100	100	100	Pass	Pass	Pass	Pass
Comments:													
Sensor ID: *2*													
Background Line ID:	1.1	0.92	0.48	0.27	0.19	100	100	100	100	Pass	Pass	Pass	Pass
Comments:													
Sensor ID: *3*													
Background Line ID:	1.2	1.27	0.68	0.41	0.21	99.67	100	100	100	Pass	Pass	Pass	Pass
Comments:													

		Item Response (mV)				Delta Response (%)				Item Pos	Status				
		Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4	Offset	Ch1	Ch2	Ch3	Ch4	Pos
Sensor ID: *1*															
Test Item: *IVS15* **Line ID:**	0	208.50	147.45	84.40	42.01	-15.58	-15.38	-14.56	-14.43	0.12	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS18* **Line ID:**	0	226.78	161.60	91.93	45.82	-12.08	-11.58	-11.68	-11.23	0.17	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS21* **Line ID:**	0	35.32	28.86	20.07	11.81	-8.97	-7.80	-5.35	-4.74	0.12	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS24* **Line ID:**	0	52.33	31.87	14.37	4.59	-14.23	-14.86	-15.05	-12.23	0.20	Pass	Pass	Pass	Pass	Pass
Comments:															
Sensor ID: *2*															
Test Item: *IVS13* **Line ID:**	0.1	188.12	132.26	76.36	37.43	-16.58	-16.43	-15.77	-15.94	0.13	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS16* **Line ID:**	0.1	191.19	135.47	77.60	38.01	-12.98	-12.26	-11.90	-11.80	0.14	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS19* **Line ID:**	0.1	29.47	23.08	16.23	8.98	-13.73	-15.56	-13.30	-15.61	0.20	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS22* **Line ID:**	0.1	55.40	34.68	16.60	5.52	-14.96	-14.37	-12.84	-11.60	0.17	Pass	Pass	Pass	Pass	Pass
Comments:															
Sensor ID: *3*															
Test Item: *IVS14* **Line ID:**	0.2	209.32	146.22	81.77	41.63	-3.37	-3.20	-3.67	-2.28	0.27	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS17* **Line ID:**	0.2	199.67	138.70	77.39	38.73	0.12	-0.04	-0.08	0.40	0.24	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS20* **Line ID:**	0.2	29.10	22.61	16.14	10.44	-1.58	-5.52	-4.71	0.36	0.33	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS23* **Line ID:**	0.2	50.36	30.29	13.28	4.18	-2.56	-3.79	-7.10	-10.20	0.39	Pass	Pass	Pass	Pass	Pass
Comments:															

GPS Function Check

Point Location ID: Unit 4 IVS **Total Offset (ft):** 0.04162 **Status:** Pass

Comments:

DateCollected: **9/26/2016** **Team ID:** GEO_1 **Survey Instrument:** Array 2 **Instrument Warm-up Time:** 15

Weather: dry;sunny;windy **Static Tests File Name:** 0926161QC2

IVS Test File Name: 0926161IVS2 **IVS Location:** Unit 4 IVS Mod2 **GPS Check File Name:**

QC Survey Notes: 12.4/12.6/12.3

QC Tests

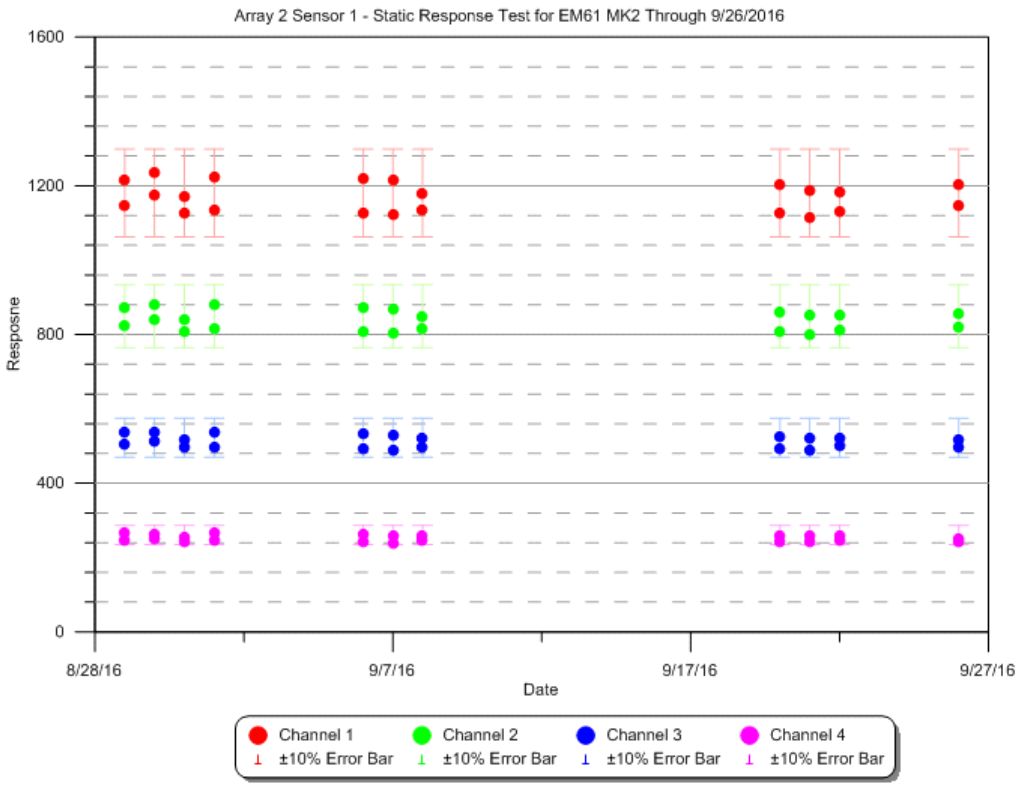
		Response (mV)				Percent in Tolerance				Status			
		Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4
Sensor ID: *1*													
Static Pre-Line ID:	0	-0.22	-0.1	-0.05	-0.02	100	100	100	100				
Static Spike-Line ID:	1	1147.82	818.99	496.8	241.3	100	100	100	100				
Static Post-Line ID:	2	-1.04	-0.47	-0.19	-0.03	100	100	100	100				
Comments:										Pass	Pass	Pass	Pass
Sensor ID: *2*													
Static Pre-Line ID:	0.1	-0.26	-0.16	-0.02	-0.03	100	100	100	100				
Static Spike-Line ID:	1.1	1153.74	828.06	504.16	247.74	100	100	100	100				
Static Post-Line ID:	2.1	-1.07	-0.57	-0.16	-0.11	100	100	100	100				
Comments:										Pass	Pass	Pass	Pass
Sensor ID: *3*													
Static Pre-Line ID:	0.2	-0.22	-0.1	-0.02	0.03	99.92	100	100	100				
Static Spike-Line ID:	1.2	1227.32	874.31	530.3	259.06	100	100	100	100				
Static Post-Line ID:	2.2	-0.92	-0.32	0.01	0.26	100	100	100	100				
Comments:										Pass	Pass	Pass	Pass

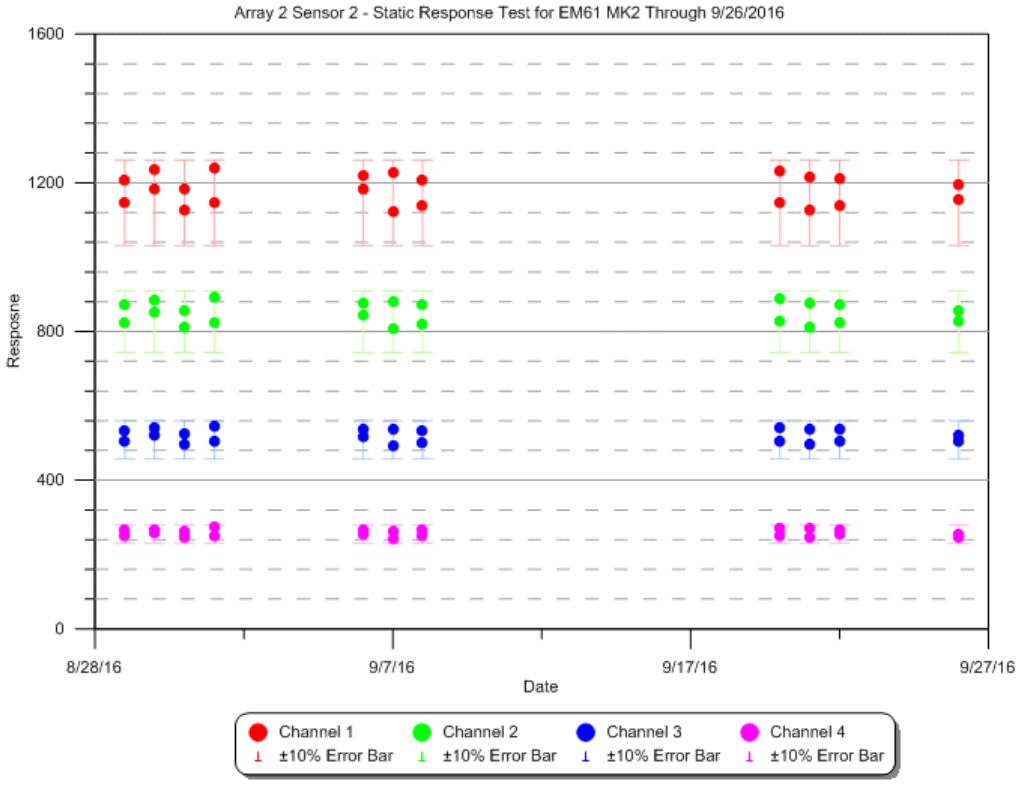
IVS Tests

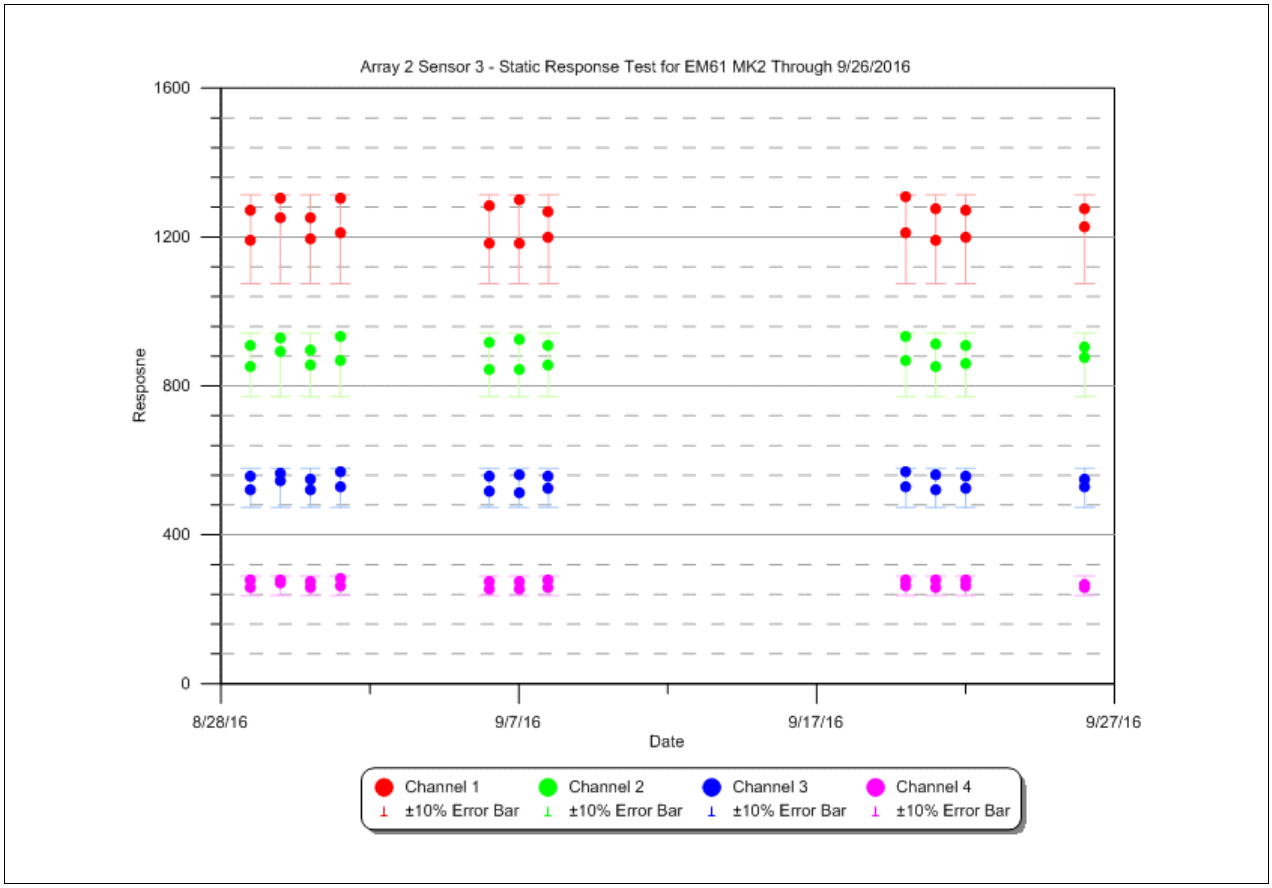
		Response (mV)				Percent in Tolerance				Status			
		Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4
Sensor ID: *1*													
Background Line ID:	1	1.26	0.96	0.52	0.28	100	100	100	100	Pass	Pass	Pass	Pass
Comments:													
Sensor ID: *2*													
Background Line ID:	1.1	1	0.59	0.36	0.23	100	100	100	100	Pass	Pass	Pass	Pass
Comments:													
Sensor ID: *3*													
Background Line ID:	1.2	0.97	0.57	0.3	0.19	100	100	100	100	Pass	Pass	Pass	Pass
Comments:													

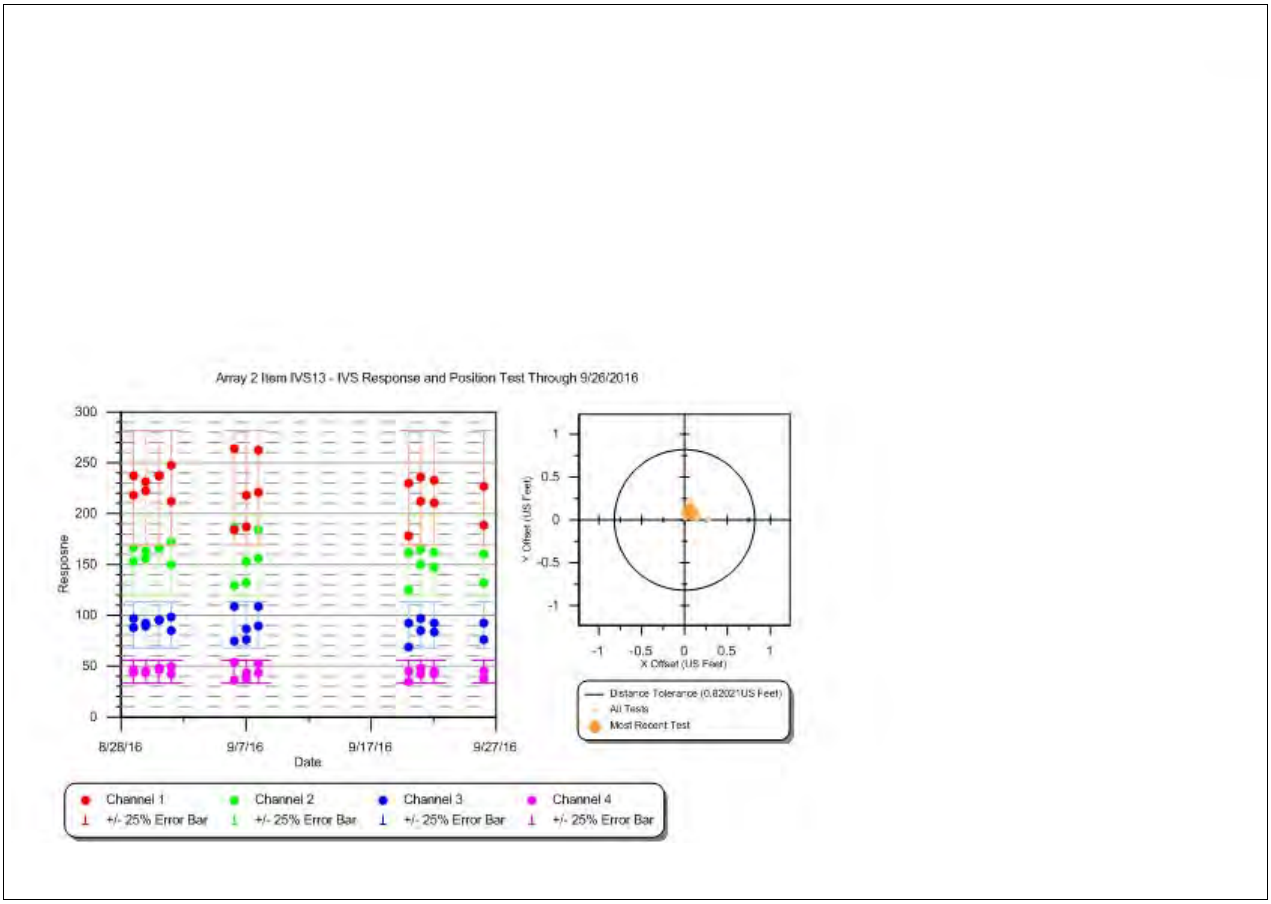
		Item Response (mV)				Delta Response (%)				Item Pos	Status				
		Ch1	Ch2	Ch3	Ch4	Ch1	Ch2	Ch3	Ch4	Offset	Ch1	Ch2	Ch3	Ch4	Pos
Sensor ID: *1*															
Test Item: *IVS15* **Line ID:**	0	243.37	172.67	99.25	49.12	-1.46	-0.91	0.47	0.06	0.09	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS18* **Line ID:**	0	266.31	188.69	107.58	53.46	3.25	3.24	3.36	3.56	0.24	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS21* **Line ID:**	0	39.03	31.61	21.73	12.52	0.58	0.97	2.49	0.95	0.07	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS24* **Line ID:**	0	58.85	36.08	16.50	5.30	-3.55	-3.59	-2.41	1.45	0.26	Pass	Pass	Pass	Pass	Pass
Comments:															
Sensor ID: *2*															
Test Item: *IVS13* **Line ID:**	0.1	227.41	159.88	92.27	45.12	0.84	1.02	1.78	1.32	0.11	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS16* **Line ID:**	0.1	227.29	159.79	91.59	44.55	3.45	3.49	3.98	3.38	0.04	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS19* **Line ID:**	0.1	35.67	27.89	19.31	10.83	4.41	2.02	3.15	1.77	0.18	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS22* **Line ID:**	0.1	62.35	38.98	18.51	5.93	-4.30	-3.75	-2.81	-5.07	0.11	Pass	Pass	Pass	Pass	Pass
Comments:															
Sensor ID: *3*															
Test Item: *IVS14* **Line ID:**	0.2	216.68	151.03	85.75	42.80	0.03	-0.02	1.01	0.46	0.36	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS17* **Line ID:**	0.2	203.19	142.17	79.53	39.49	1.89	2.46	2.67	2.37	0.36	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS20* **Line ID:**	0.2	30.79	24.56	16.86	10.15	4.14	2.65	-0.47	-2.38	0.34	Pass	Pass	Pass	Pass	Pass
Comments:															
Test Item: *IVS23* **Line ID:**	0.2	52.53	31.10	14.38	4.59	1.65	-1.22	0.57	-1.46	0.55	Pass	Pass	Pass	Pass	Pass
Comments:															

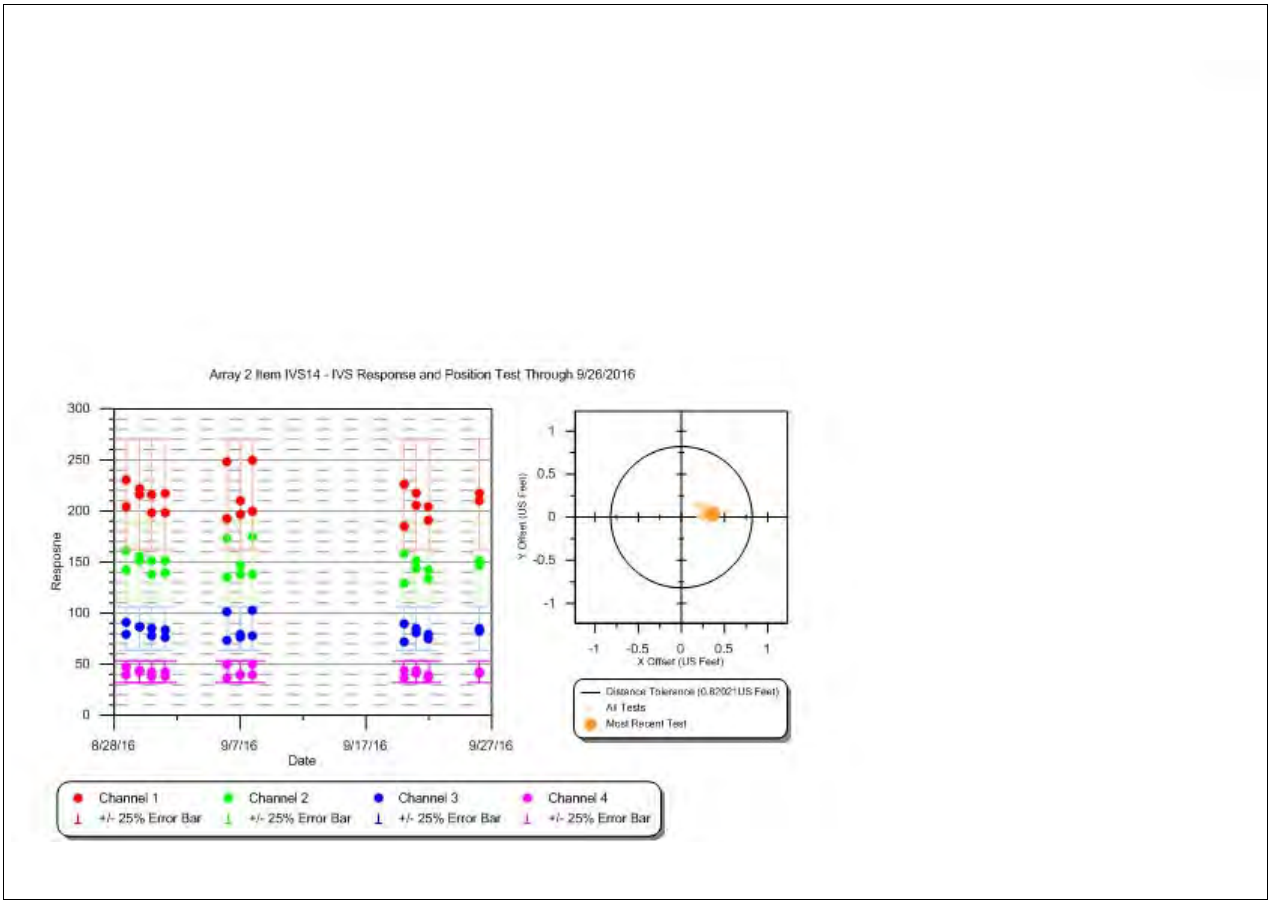
Cumulative Daily Measurement Performance Criteria

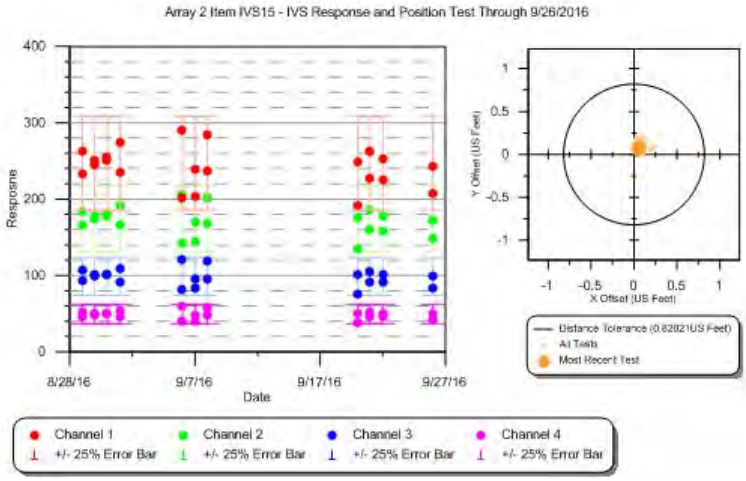


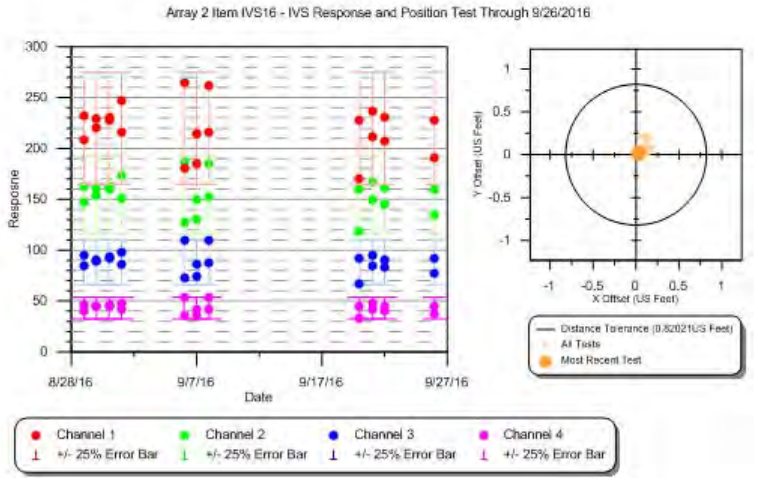


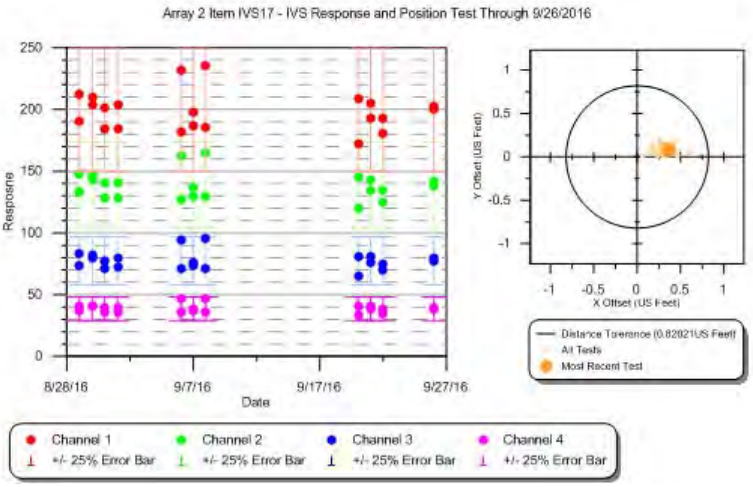

Array 2 Sensor 3 - Static Response Test for EM61 MK2 Through 9/26/2016
1600
1200
800
400
0
Responsne
8/28/16
9/7/16
9/17/16
9/27/16
Date
Channel 1
±10% Error Bar
Channel 2
±10% Error Bar
Channel 3
±10% Error Bar
Channel 4
±10% Error Bar

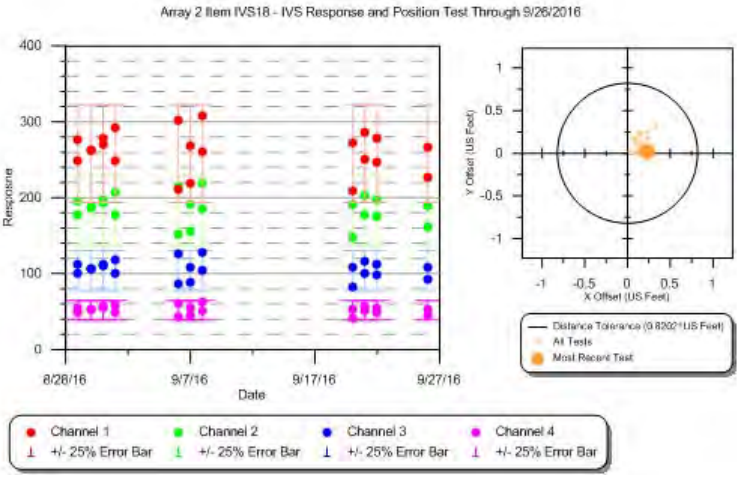

Array 2 Item IVS13 - IVS Response and Position Test Through 9/26/2016
Response
Date
8/28/16
9/7/16
9/17/16
9/27/16
Y Offset (US Feet)
X Offset (US Feet)
Distance Tolerance (0.82021 US Feet)
All Tests
Most Recent Test
Channel 1
Channel 2
Channel 3
Channel 4
+/- 25% Error Bar

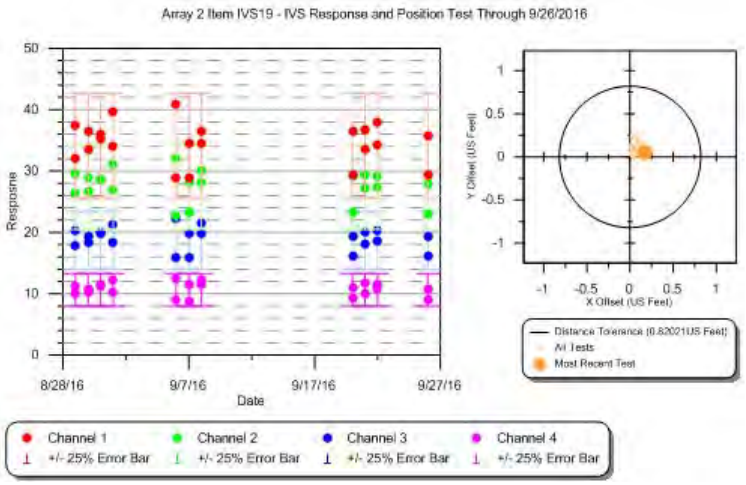

Array 2 Item IVS14 - IVS Response and Position Test Through 9/26/2016
Response
Date
8/28/16
9/7/16
9/17/16
9/27/16
Y Offset (US Feet)
X Offset (US Feet)
Distance Tolerance (0.82021 US Feet)
All Tests
Most Recent Test
Channel 1
Channel 2
Channel 3
Channel 4
+/- 25% Error Bar

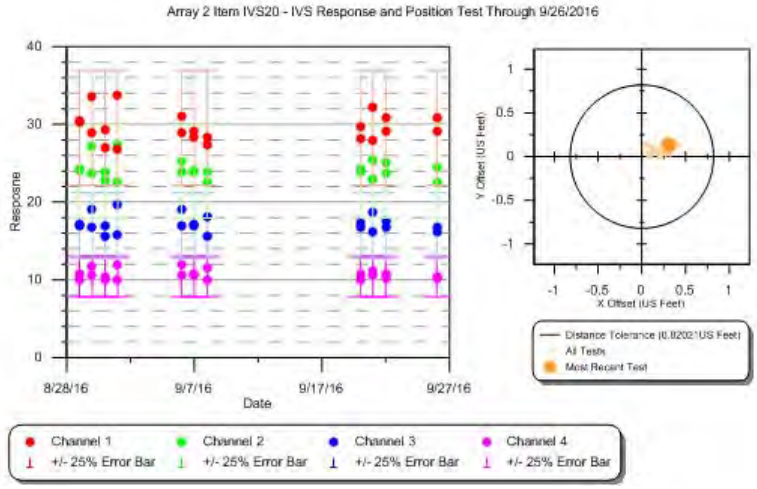

Array 2 Item IVS15 - IVS Response and Position Test Through 9/26/2016
Response
Date
8/28/16
9/7/16
9/17/16
9/27/16
Y Offset (US Feet)
X Offset (US Feet)
Distance Tolerance (0.82021US Feet)
All Tests
Most Recent Test
Channel 1
Channel 2
Channel 3
Channel 4
+/- 25% Error Bar

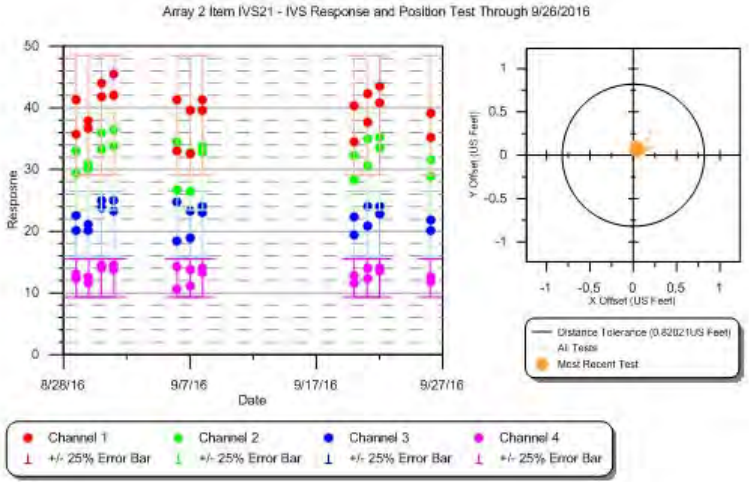

Array 2 Item IVS16 - IVS Response and Position Test Through 9/26/2016
Response
Date
8/28/16
9/7/16
9/17/16
9/27/16
Y Offset (US Feet)
X Offset (US Feet)
Distance Tolerance (0.82021US Feet)
All Tests
Most Recent Test
Channel 1
Channel 2
Channel 3
Channel 4
+/- 25% Error Bar

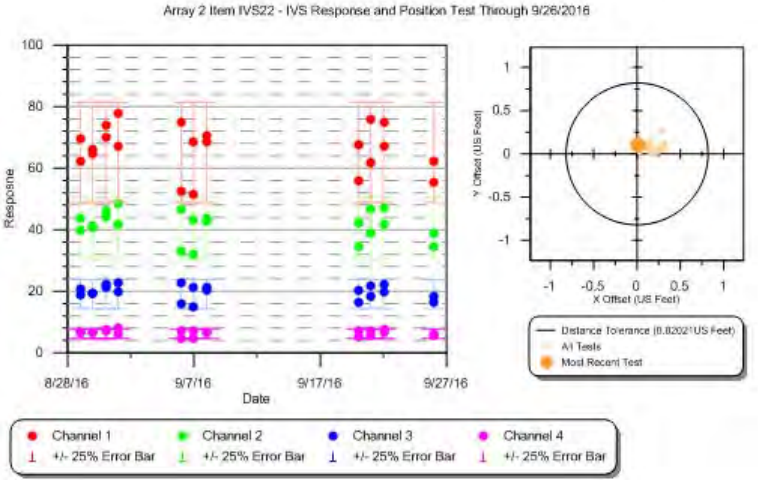

Array 2 Item IVS17 - IVS Response and Position Test Through 9/26/2016
Response
Date
8/28/16
9/7/16
9/17/16
9/27/16
Y Offset (US Feet)
X Offset (US Feet)
Distance Tolerance (0.82021US Feet)
All Tests
Most Recent Test
Channel 1
Channel 2
Channel 3
Channel 4
+/- 25% Error Bar

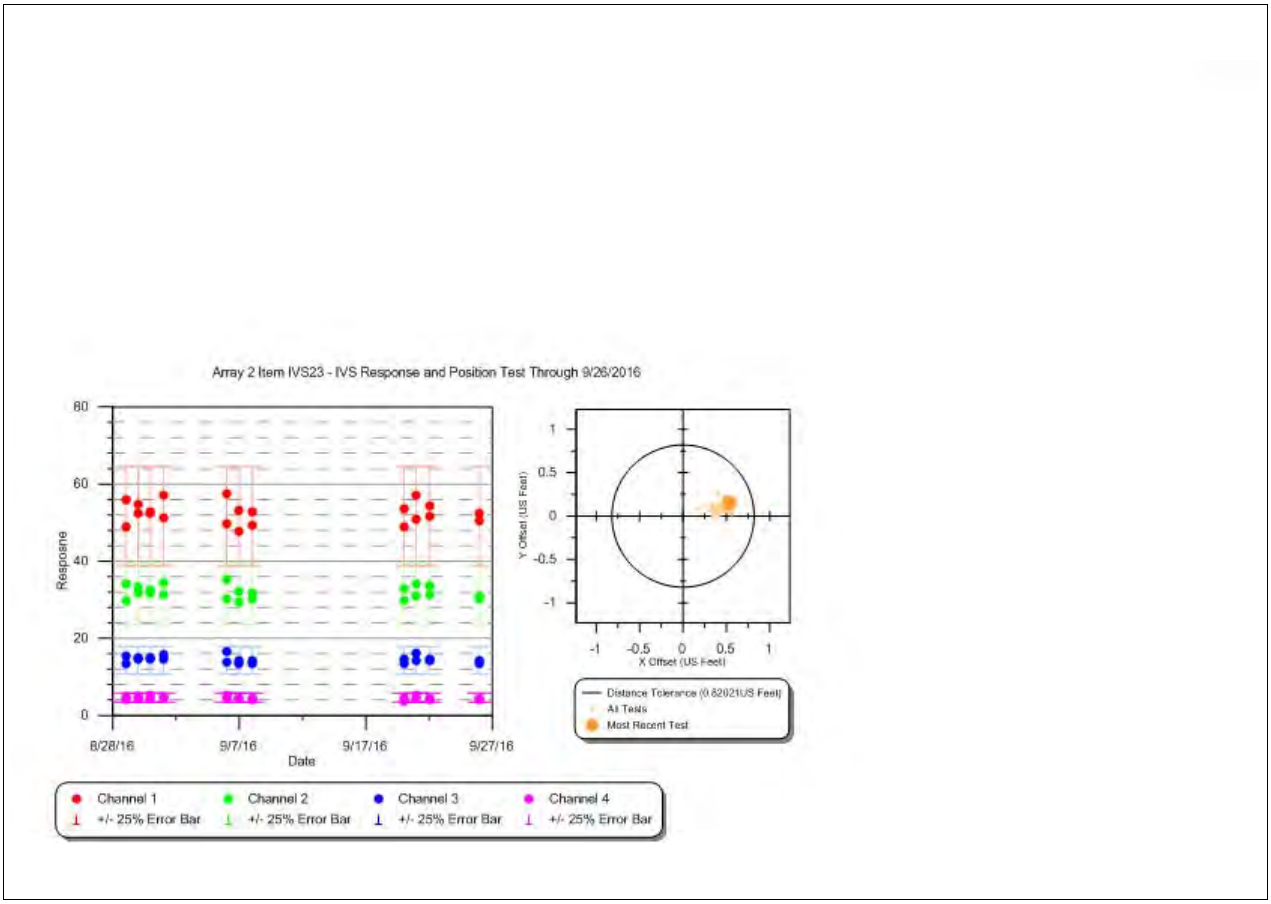

Array 2 Item IVS18 - IVS Response and Position Test Through 9/26/2016
Response
Date
8/28/16
9/7/16
9/17/16
9/27/16
Y Offset (US Feet)
X Offset (US Feet)
Distance Tolerance (0.82021US Feet)
All Tests
Most Recent Test
Channel 1
Channel 2
Channel 3
Channel 4
+/- 25% Error Bar

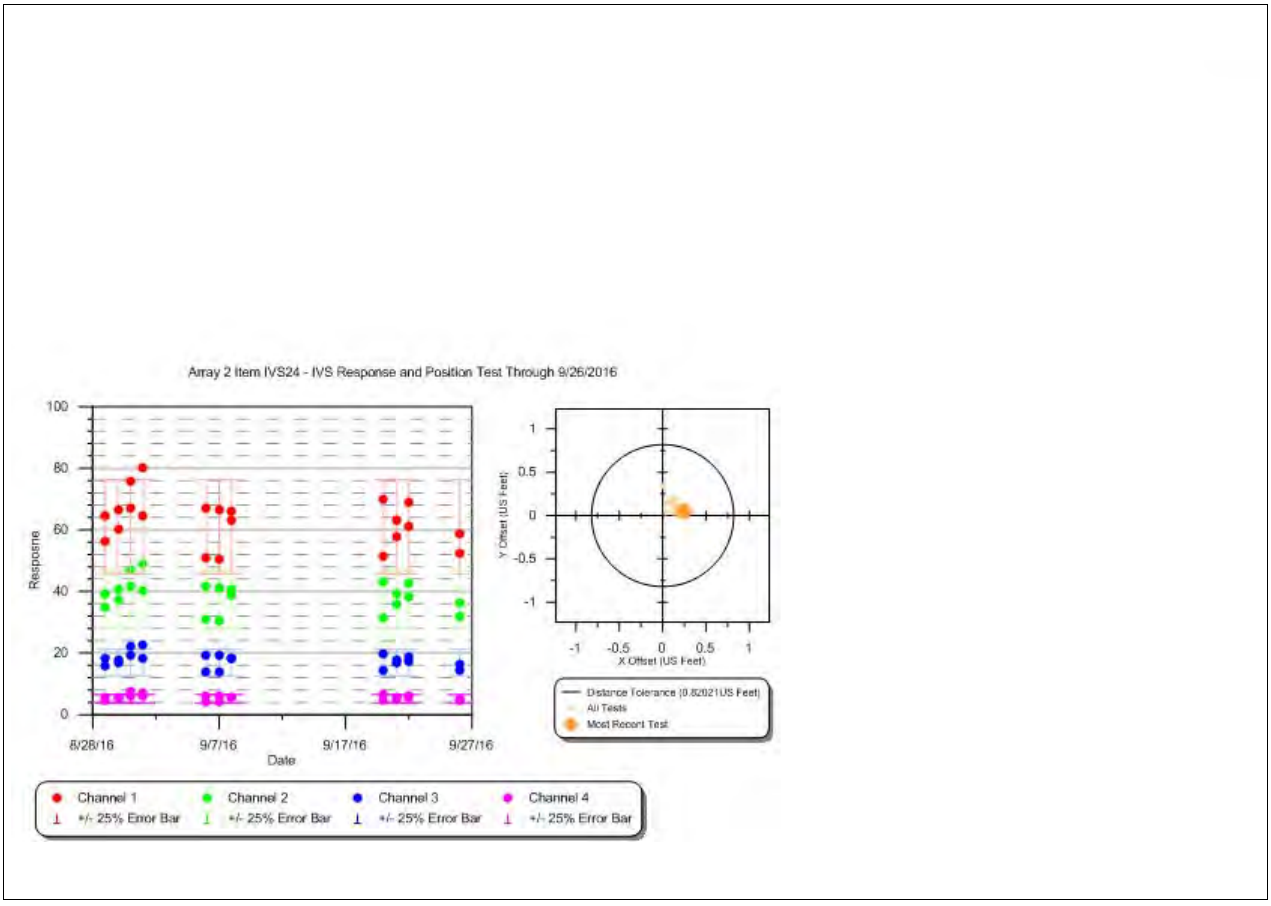

Array 2 Item IVS19 - IVS Response and Position Test Through 9/26/2016
Response
Date
8/28/16
9/7/16
9/17/16
9/27/16
Y Offset (US Feet)
X Offset (US Feet)
Distance Tolerance (0.82021US Feet)
All Tests
Most Recent Test
Channel 1
Channel 2
Channel 3
Channel 4
+/- 25% Error Bar

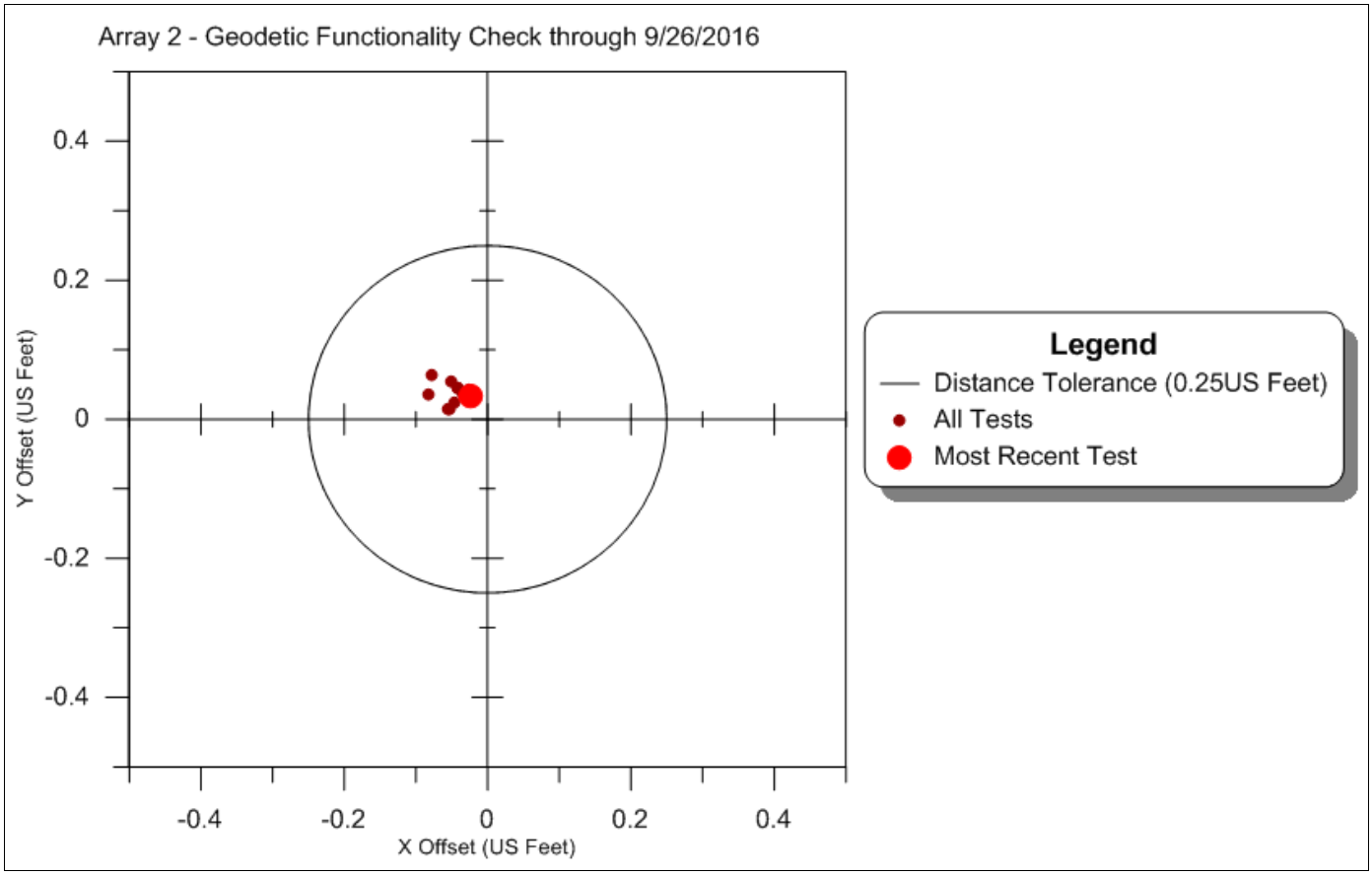

Array 2 Item IVS20 - IVS Response and Position Test Through 9/26/2016
Response
Date
8/28/16
9/7/16
9/17/16
9/27/16
Y Offset (US Feet)
X Offset (US Feet)
All Tests
Most Recent Test
Channel 1
Channel 2
Channel 3
Channel 4
+/- 25% Error Bar


Array 2 Item IVS21 - IVS Response and Position Test Through 9/26/2016
Response
Date
8/28/16
9/7/16
9/17/16
9/27/16
Y Offset (US Feet)
X Offset (US Feet)
Distance Tolerance (0.82021US Feet)
All Tests
Most Recent Test
Channel 1
Channel 2
Channel 3
Channel 4
+/- 25% Error Bar


Array 2 Item IVS22 - IVS Response and Position Test Through 9/26/2016
Response
Date
8/28/16
9/7/16
9/17/16
9/27/16
Y Offset (US Feet)
X Offset (US Feet)
Distance Tolerance (0.82021US Feet)
All Tests
Most Recent Test
Channel 1
Channel 2
Channel 3
Channel 4
+/- 25% Error Bar


Array 2 Item IVS23 - IVS Response and Position Test Through 9/26/2016
Response
Date
8/28/16
9/7/16
9/17/16
9/27/16
Y Offset (US Feet)
X Offset (US Feet)
Distance Tolerance (0.82021US Feet)
All Tests
Most Recent Test
Channel 1
Channel 2
Channel 3
Channel 4
+/- 25% Error Bar


Array 2 Item IVS24 - IVS Response and Position Test Through 9/26/2016
Response
Date
8/28/16
9/7/16
9/17/16
9/27/16
Y Offset (US Feet)
X Offset (US Feet)
Distance Tolerance (0.82021US Feet)
All Tests
Most Recent Test
Channel 1
Channel 2
Channel 3
Channel 4
+/- 25% Error Bar


Array 2 - Geodetic Functionality Check through 9/26/2016
0.4
0.2
0
-0.2
-0.4
Y Offset (US Feet)
-0.4
-0.2
0
0.2
0.4
X Offset (US Feet)
Legend
Distance Tolerance (0.25US Feet)
All Tests
Most Recent Test

Appendix H

Form M-6

Team Number: UXO-2 Date: August 4, 2022

Team Leader: Mallory Project: Fort Ord, Unit-5

EXPLOSIVES ISSUED Signature of Team Leader: Thomas Mallory

Item	Quantity	Lot Number	Checker's Initials
Caps (Detonators)	2 ea.	23OC17X1	BJO
Nonel (2,500 ft.)	1	12NO18W1	BJO
Det Cord – 80gr	5 ft.	29JA20G1	BJO
20 g Perforators	1 ea.	29Oct20C1	BJO

EXPLOSIVES EXPENDED Signature of Team Leader: Thomas Mallory

Item	Quantity	Lot Number	Checker's Initials
Caps (Detonators)	2 ea.	23OC17X1	BJO
Nonel (2,500 ft.)	1	12NO18W1	BJO
Det Cord – 80gr	5 ft.	29JA20G1	BJO
20 g Perforators	1 ea.	29Oct20C1	BJO

EXPLOSIVES RETURNED Signature of SUXOS: Bradley J. Olson

Item	Quantity	Lot Number	Checker's Initials
	None		

I certify the explosives listed above were used for their intended purpose.

Bradley J. Olson

Senior UXO Supervisor

Date: August 4, 2022

Form M-6

Team Number: UXO-2 Date: August 15, 2022

Team Leader: Mallory Project: Fort Ord, Unit-5

EXPLOSIVES ISSUED Signature of Team Leader: Thomas Mallory			
Item	**Quantity**	**Lot Number**	**Checker's Initials**
Caps (Detonators)	2 ea.	23OC17X1	TM
Nonel (2,500 ft.)	700 ft.	12NO18W1	TM
Det Cord – 80gr	5 ft.	29JA20G1	TM
20 g Perforators	1 ea.	29Oct20C1	TM
EXPLOSIVES EXPENDED Signature of Team Leader: Thomas Mallory			
Item	**Quantity**	**Lot Number**	**Checker's Initials**
Caps (Detonators)	2 ea.	23OC17X1	TM
Nonel (2,500 ft.)	700 ft.	12NO18W1	TM
Det Cord – 80gr	5 ft.	29JA20G1	TM
20 g Perforators	1 ea.	29Oct20C1	TM
EXPLOSIVES RETURNED Signature of SUXOS: Bradley J. Olson			
Item	**Quantity**	**Lot Number**	**Checker's Initials**
	None		

I certify the explosives listed above were used for their intended purpose.

Bradley J. Olson

Senior UXO Supervisor

Date: August 15, 2022

Form M-6

Team Number: UXO-2 Date: August 18, 2022

Team Leader: Mallory Project: Fort Ord, Unit-5

EXPLOSIVES ISSUED — Signature of Team Leader: Thomas Mallory			
Item	**Quantity**	**Lot Number**	**Checker's Initials**
Caps (Detonators)	2 ea.	23OC17X1	
Nonel (2,500 ft./Rl)	700 ft.	12NO18W1	
Det Cord – 80gr	5 ft.	29JA20G1	
20 g Perforators	1 ea.	29Oct20C1	
EXPLOSIVES EXPENDED — Signature of Team Leader: Thomas Mallory			
Item	**Quantity**	**Lot Number**	**Checker's Initials**
Caps (Detonators)	2 ea.	23OC17X1	
Nonel (2,500 ft./Rl)	700 ft.	12NO18W1	
Det Cord – 80gr	5 ft.	29JA20G1	
20 g Perforators	1 ea.	29Oct20C1	
EXPLOSIVES RETURNED — Signature of SUXOS: Bradley J. Olson			
Item	**Quantity**	**Lot Number**	**Checker's Initials**
	None		

I certify the explosives listed above were used for their intended purpose.

Bradley J. Olson

Senior UXO Supervisor

Date: August 18, 2022

Form M-6

Team Number: UXO-2 Date: September 26, 2022

Team Leader: Mallory Project: Fort Ord, Unit-5

EXPLOSIVES ISSUED

Signature of Team Leader: Thomas Mallory

Item	Quantity	Lot Number	Checker's Initials
Caps (Detonators)	2 ea.	22SE08X1-0004	TM
Nonel (2,500 ft./Rl)	1 Rl.	12NO18W1	TM
Nonel (2,500 ft./Rl)	1 Rl.	31MY10W1	TM
Det Cord – 80gr	200 ft.	29JA20G1	TM
20 g Perforators	27 ea.	29Oct20C1	TM

EXPLOSIVES EXPENDED

Signature of Team Leader: Thomas Mallory

Item	Quantity	Lot Number	Checker's Initials
Caps (Detonators)	2 ea.	22SE08X1-0004	TM
Nonel (2,500 ft./Rl)	1 Rl.	12NO18W1	TM
Nonel (2,500 ft./Rl)	1 Rl.	31MY10W1	TM
Det Cord – 80gr	200 ft.	29JA20G1	TM
20 g Perforators	27 ea.	29Oct20C1	TM

EXPLOSIVES RETURNED

Signature of SUXOS: Bradley J. Olson

Item	Quantity	Lot Number	Checker's Initials
	None		

I certify the explosives listed above were used for their intended purpose.

Bradley J. Olson

Date: September 26, 2022

Senior UXO Supervisor

Form M-6

Team Number: UXO-1 Date: July 23, 2024

Team Leader: Smith Project: Fort Ord, Unit-5, Risk reduction and ASM 2024

EXPLOSIVES ISSUED Signature of Team Leader: Jason Smith			
Item	**Quantity**	**Lot Number**	**Checker's Initials**
Caps (Detonators)	2 ea.	22SE08X1-0004	SCS
Nonel (2,500 ft./Rl)	2 Rl.	31MY10W1	SCS
Det Cord – 80gr	100 ft.	29JA20G1	SCS
20 g Perforators	20 ea.	29Oct20C1	SCS
EXPLOSIVES EXPENDED Signature of Team Leader: Jason Smith			
Item	**Quantity**	**Lot Number**	**Checker's Initials**
Caps (Detonators)	2 ea.	22SE08X1-0004	SCS
Nonel (2,500 ft./Rl)	2 Rl.	31MY10W1	SCS
Det Cord – 80gr	100 ft.	29JA20G1	SCS
20 g Perforators	17 ea.	29Oct20C1	SCS
EXPLOSIVES RETURNED Signature of SUXOS: Bradley J. Olson			
Item	**Quantity**	**Lot Number**	**Checker's Initials**
20 g Perforators	3 ea.	29Oct20C1	SCS

I certify the explosives listed above were used for their intended purpose.

Bradley J. Olson

Senior UXO Supervisor

Date: July 23, 2024

Appendix I

KEMRON

Field Work Variance No. 001

Page 1 of 4

FIELD WORK VARIANCE

Project Name/Number	Fort Ord SATOC - W9123820D0004	**TO**	03 - W9123820F0077
Applicable Document	Addendum to Final Work Plan, MRS-BLM Units 1-5, Munitions and Explosives of Concern Removal, Unit 5, Former Fort Ord, California (KEMRON, 2022) (OE-0626U)	**Date**	September 28, 2023

Background: Activities to complete the remedial action in Unit 5 within the Impact Area Munitions Response Area (MRA) at the former Fort Ord have been ongoing over the past 2 years per the Applicable Document above (Unit 5 SSWP Addendum). A vernal pond in Unit 5, Pond 21, was remediated (subsurface MEC removal) by KEMRON after the completion of a DGM survey and anomaly identification by USACE and following processes and procedures described in the Unit 5 SSWP Addendum. Subsequent to the finalization of the Unit 5 SSWP Addendum, a new pond in Unit 5, Pond 76, was identified by USACE in the eastern portion of the unit (0.13 acres) and added to its program for vernal pond management. That designation was made prior to performing DGM over the entire of Unit 5, and thus the DGM of Pond 76 using the towed array was not performed to avoid potential damage to the pond habitat.

Section 3.0 of the Unit 5 Remedial Action Technical Memorandum (KEMRON, 2023) [OE-1019A] stated as follows: "It should be noted that DGM data was not collected in Pond 76, which is a variance from the Unit 5 SSWP Addendum. The USACE plans to do a DGM survey in Pond 76 when site conditions permit." Just like for Pond 21, a manual DGM survey of new Pond 76 was thus required. See figure attached from this document.

Problem Description:

Due to standing water conditions in Pond 76 for an extended period of time, the DGM survey of Pond 76 was not able to be completed by USACE until September 2023.

Anomalies within the footprint of Pond 76 should now be removed to allow safe access for future biological surveys and complete the remedial action in the unit.

Anomaly investigations should be minimized and standard procedures followed to maintain the integrity of the pond. This FWV addresses the addition of the anomaly investigations in Pond 76.

Recommended Solution: Add the Geophysical Investigation of Pond 76 to the Technical Scope presented in Section 2.3 of the Unit 5 SSWP Addendum. The Pond 76 target digs are within the contract scope, having been included in Modification 05 to TO 03, issued on 7/5/23.

Pond 76 anomaly selection will occur based on the fieldwork performed in September 2023 and presented in the DGM Survey of Pond 76 at former Fort Ord, Monterey, California (USACE, 2023). MEC removal will follow the procedures for Vernal Pond Geophysical Anomaly Investigation in Section 6.8.1 of the Unit 5 SSWP Addendum, including the on-site presence of a USACE Geologist. Follow all the same processes, procedures, QAPP SOPs, and quality control activities used for the Pond 21 subsurface MEC removal and referenced in the Unit 5 SSWP Addendum. Document the results of this work in the Unit 5 Remedial Action Report.

Impact on present and completed work:

No cost or schedule impact on current or completed work.

Recommended solution/disposition:

Incorporate this FWV as an appendix to the existing Final Unit 5 SSWP Addendum.

Clarification ☐ Minor Change ☒ Major Change ☐

KEMRON

Field Work Variance No. 001

Affects Budget Yes ☐ No ☒

Affects Schedule Yes ☐ No ☒

Signature Maggie Bleakley Date 9/29/2023
Technical Editor

Signature Bradley J Olson Date 9/28/23
SUXOS

Signature Bruce M. C Date 9/28/23
UXOQCS

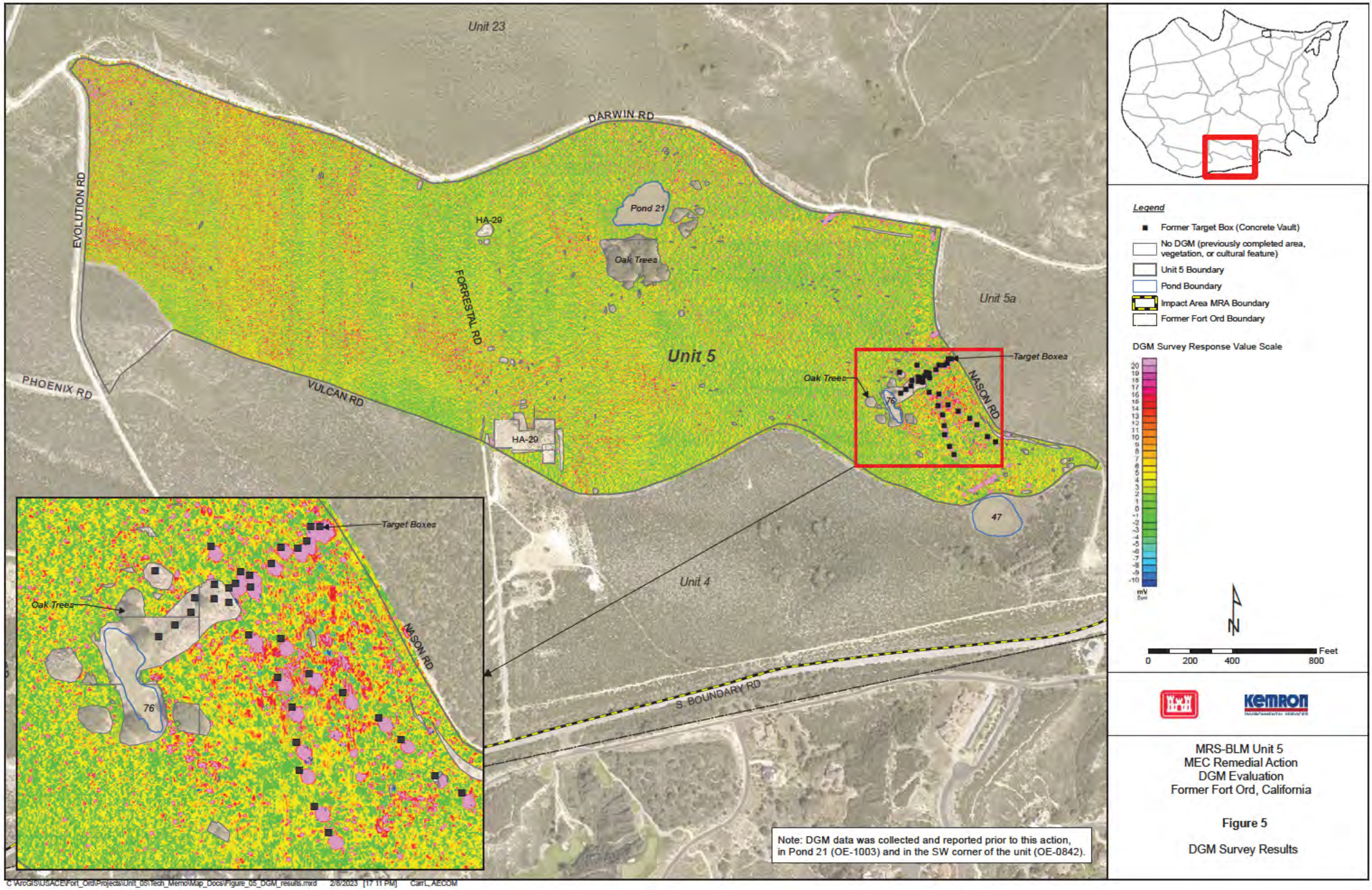
Signature Steve Crane Date 9/28/23
Project Manager

USACE Approval: If Major Change:

Signature _____ Date 28 SEP 2023
OE Safety Specialist

Signature KEMP.JOHN.E.1364570372 Digitally signed by KEMP.JOHN.E.1364570372 Date: 2023.09.29 14:51:40 -07'00' Date _____
USACE COR or TM

Signature LINDSAY.KYLE.M.1529297226 Digitally signed by LINDSAY.KYLE.M.1529297226 Date: 2023.09.29 14:48:04 -07'00' Date _____
USACE Project Geophysicist



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MRS-BLM Unit 5
MEC Remedial Action
DGM Evaluation
Former Fort Ord, California

Figure 5

DGM Survey Results

Distribution List: SATOC FWV-001- Addendum to Final Work Plan, MRS-BLM Units 1-5, Munitions and Explosives of Concern Removal, Unit 5, Former Fort Ord, California

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Approved: KEMP.JOHN.E.1364570372 Digitally signed by KEMP.JOHN.E.1364570372 Date: 2023.09.29 15:30:56 -07'00'

U.S. Army Corps of Engineers

APPENDIX J

Site Activity Photographs

Photo 1: Unit 5 Vegetation Clearance (mechanical mastication). November 2021

Photo 2: Technology-aided Surface MEC Removal. August 2022

Photo 3: MPPEH recovered during vegetation removal in 2021. After demolition, it was determined to be MEC (Projectile, 8inch, high explosive, M106). November 2021

Photo 4: Preparation of a consolidation shot. September 2022

Photo 5: DGM survey being performed (EM61 towed array). October 2022

Photo 6: EM61 towed array (for DGM surveys). October 2022

Appendix K

RESPONSES TO COMMENTS

Document:	Draft MRS-BLM Unit 05 Munitions and Explosives of Concern (MEC) Remedial Action Report, March 2025
Commenting Organization:	United States Environmental Protection Agency (EPA)
Name:	Maeve Clancy
Date of Comments:	April 29, 2025

General Comment 1:

The Draft RAR discusses the use of land use controls (LUCs) but does not depict the areas where LUCs are proposed on a figure. Please revise the Draft RAR to depict the areas where proposed LUCs will be implemented on a figure.

Response to General Comment 1:

The reference to LUCs in this document is to provide an overview of the selected remedy for the Impact Area Munitions Response Area (MRA) as is discussed in the Track 3 Impact Area MRA Record of Decision (ROD). The implementation of the LUCs is described in the Remedial Design/Remedial Action Work Plan (RD/RAWP, OE-0660K). As noted in Section 3.1, Remedial Action Objectives, the LUCs are a component of the selected remedy and includes: munitions recognition and safety training, construction support for ground disturbing or intrusive activities and UXO-qualified personnel support, access management measures including regular security patrols of the Impact Area MRA perimeter and maintenance of fences and signs, helicopter support for future prescribed burns in selected areas for future habitat management purposes, weed abatement support, and property transfer documentation that outlines land use restrictions, including prohibition of unrestricted land use. The section includes a reference to the RD/RAWP.

General Comment 2:

The Draft RAR does not discuss topography in sufficient detail. For example, the grid system could be superimposed on a figure depicting topography. This would allow interpretation of those areas that were considered too steep to conduct the intended work. Please revise this section to (a) include a more detailed discussion of topography; and (b) superimpose the intended work grids onto a topographic map.

Response to General Comment 2:

The following sentence was added to section 2.1, “The topography of the unit is similar to the majority of the central and western portions of the Impact Area, which consists of gently rolling hills and, with the exception of localized areas within the unit, absent of rugged terrain that is characteristic of the eastern portion of the MRA.”

Surface MEC removal was completed in the entire unit. Portions of the unit were not accessible to the towed-array digital geophysical mapping (DGM) survey. These inaccessible areas included trees and localized areas within the unit that were deemed too steep or rugged for the EM61 towed array to safely perform a survey. These areas are identified on Figure 8 (DGM results) and Figure 10 (large data gaps/risk reduction areas).. Areas inaccessible to the towed array DGM survey were later investigated as part of the risk reduction work identified in the Unit 5 Technical Memorandum. The completion of the subsurface investigation is described in section 6.3.5 of this report.

General Comment 3:

The Draft RAR indicates that subsurface investigations of anomalies were performed in selected areas but does not discuss the methodology used for selecting those areas requiring such investigations (i.e., the remediation areas). Please revise the Draft RAR to include a discussion of the methodology used to both bound those areas where munitions were most likely present in the subsurface or sufficient anomalies were detected and selected for investigation to merit subsurface investigation.

Response to General Comment 3:

The selected remedy for the Impact Area MRA includes subsurface removal in selected areas. As noted in Section 3.1, areas of subsurface removal include regularly maintained fuel breaks and access roads, a minimum 100-foot buffer area between habitat and development areas, and other areas to address specific risk and/or land use needs. Regularly maintained fuel breaks and access roads, and 100-foot buffer areas do not occur within Unit 5. As summarized in Section 1.1 Purpose and Scope, remedial action in Unit 5 included subsurface investigations in areas identified in the Addendum to Final Work Plan (OE-0626U), a Field Work Variance (included in Appendix I), and Technical Memorandum (OE-1019A).

The subsurface work in Pond 21 was identified in the Addendum to Final Work Plan. Geophysical anomaly investigation in Pond 76 was identified in the Field Work Variance. Completing these subsurface investigations support safe access for future biological surveys.

The Unit 5 Technical Memorandum identified intrusive anomaly investigation targeting potential large projectiles as part of risk reduction (described in Section 6.3.4), and analog subsurface removal in gaps without towed array DGM survey data.

Other subsurface removals within Unit 5 were conducted as part of the soil remediation under the Site 39 Record of Decision Amendment or conducted prior to the Track 3 ROD.

General Comment 4:

The Draft RAR does not contain a photographic log. While it is noted that Appendix C, Final DGM Survey of Vernal Pond 21, contains 6 photographs, please revise the Draft RAR to include photographs of all tasks that occurred during the Remedial Action activities.

RESPONSES TO COMMENTS

Response to General Comment 4:

An appendix has been added (Appendix J) which contains photos from various site activities. The Addendum to Final Work Plan (OE-0626U) does not require photo documentation of the field work other than for the intrusive investigation of geophysical anomalies in vernal ponds due to the sensitive nature of the ponds. Photographs of intrusive anomaly investigations in the two vernal ponds have been delivered to U.S. Army Corps of Engineers (USACE) and Base Realignment and Closure (BRAC) biologist.

Specific Comment 1:

Section 1.1, Purpose and Scope, Page 3. The third bullet point on this page states "(check on language, either subsurface or intrusive investigation?), which is confusing, as these terms are redundant. Please clarify this bullet point.

Response to Specific Comment 1:

The text "(check on language, either subsurface or intrusive investigation?)" has been removed.

Specific Comment 2:

Section 2.0, Site Background. Section 2.0 should include a discussion of the local climate. Please revise this section to include a discussion of the local climate.

Response to Specific Comment 2:

The following paragraph discussing climate was added to the end of Section 2.1:

"The area's climate is characterized by warm, dry summers and cool, rainy winters. The Pacific Ocean is the principal influence on the climate at the former Fort Ord, and the source of fog and onshore winds that moderate temperature extremes. Daily ambient air temperatures typically range from 40 to 70 degrees Fahrenheit (F), but temperatures in the low 100s have occurred. Winds are generally from the west. Thick fog (marine layer) is common in the morning throughout the year and in the afternoons in summer. The average annual rainfall of 18 inches occurs almost entirely between November and April. Because the predominant soil is permeable sand, runoff is limited, and streamflow occurs only intermittently and within the very steep canyons in the eastern portion of the Impact Area."

Specific Comment 3:

Section 3.1, Remedial Action Objectives, Page 12. The fourth bullet point on this page states "Recovered MEC [Munitions and Explosives of Concern] would be detonated, using engineering controls," but does not discuss whether recovered MEC will be blown in place (BIP) or removed to an approved site for a consolidated detonation. Additionally, it does not describe the engineering controls that will be used during

detonation. Please revise this section to include a discussion of whether recovered MEC will be BIPed or destroyed by consolidated detonation, and the engineering controls that will be used during detonation.

Response to Specific Comment 3:

The detonation of MEC is described in Section 8.1.3. Recovered munitions that required detonation were managed in accordance with the *Final Quality Assurance Project Plan, Volume II, Appendix A, Munitions and Explosives of Concern Remedial Action, Former Fort Ord, California* (MEC QAPP) (OE-0884A). Engineering controls and MEC disposal methodologies are described in the KEMRON standard operating procedures UXO SOP 6, which can be found as an appendix in the MEC QAPP (OE-0884A). As described in Section 8.1.3, three 40mm projectiles were blown in place. Other items were destroyed in consolidated shots.

Specific Comment 4:

Section 3.2.2, Variations from the Site-Specific Work Plan, Page 14. This section states "The FWV [field work variance] proposed that the anomalies within the footprint of Pond 76 were to be removed to allow safe access for future biological surveys and to complete the remedial action in the unit," but does not discuss whether every detected anomaly will be removed, when anomaly removal is planned, or if it has already occurred. Please revise this section to include a discussion of whether every detected anomaly will be removed, when removal is planned, and/or if it has already occurred.

Response to Specific Comment 4:

This section is intended to describe the FWV as having added to the scope of the planned work the intrusive investigation of geophysical anomalies in Pond 76. This work has been completed. For clarification, the following text was added to the section: "The work under this FWV was performed on November 13, 2023 (the subsurface/intrusive investigation of 7 anomalies selected from the DGM survey of Pond 76) and is described in Section 6.3.3".

Specific Comment 5:

Section 4.1, Vegetation Clearance, Page 15. This section states "The areas around the ponds and sensitive habitat areas were identified and flagged by the Project Biologist prior to the start of field activities," but does not discuss the Project Biologist's qualifications or licenses, or the methodology to be used to identify sensitive habitat areas. Please revise this section to include a discussion of the Project Biologist's qualifications or licenses, and the methodology to be used to identify sensitive habitat areas.

Response to Specific Comment 5:

The qualifications of staff, including Project Biologists, are discussed in the addendum to the MEC QAPP (*Addendum to Final Quality Assurance Project Plan Former Fort Ord, California Volume II, Appendix A*

Munitions and Explosives of Concern Remedial Action Unit 5, OE-0884D). Additional details on field procedures for the protection of natural resources and roles of the Project Biologist position can be found in Field SOPs 2 and 4, located in the MEC QAPP (OE-0884A). Environmental protection measures that were implemented during the MEC remedial action are described in Section 10.

Specific Comment 6:

Section 4.1, Vegetation Clearance, Page 16. This section states "UXO [unexploded ordnance]-qualified personnel provided UXO escort support during vegetation clearance, conducting a visual survey of the ground surface with the aid of Schonstedt magnetometers," but does not discuss the qualifications of the UXO-qualified personnel. Please revise this section to include a discussion of the qualifications of the UXO-qualified personnel.

Response to Specific Comment 6:

As described in Section 1.3, MEC removal work was performed with UXO technicians who met or exceeded the requirements of Department of Defense Explosives Safety Board (DDESB) Technical Paper 18, Revision 1, Minimum Qualifications for Personnel Conducting Munitions and Explosives of Concern Related Activities. The qualifications of UXO management staff, including Senior UXO Supervisor and UXO Quality Control Specialist are discussed in the addendum to the MEC QAPP (OE-0884D). Consistent with Field SOP 4, located in MEC QAPP (OE-0884A), UXO Technician II (or higher) performed UXO escort for vegetation clearance operations.

Specific Comment 7:

Section 4.3, Grid System Staking, Page 16. This section discusses grid system staking but does not reference a figure depicting the staked grid system. Please revise this section to include a reference to a figure depicting the staked grid system.

Response to Specific Comment 7:

The 100-foot by 100-foot grid system can be seen in Figure 3, which is shown as "surface MEC removal". The following text was added to that section: "The grid system for Unit 5 is depicted on Figure 3 and is shown as 'Surface MEC removal.'"

Specific Comment 8:

Section 5.1, Technology-Aided Surface MEC Removal, Page 17. This section discusses prescribed burns in Units 7, 10, and 33, but does not describe the prescribed burns in sufficient detail or indicate when the prescribed burns occurred. This section also discusses technology-aided surface removal using Schonstedt magnetometers but does not discuss when the technology-aided surface removal occurred. Please revise this section to include a discussion of the date ranges when the technology-aided surface removal occurred,

to provide additional sufficient details regarding the prescribed burns, and to indicate when the prescribed burns occurred.

Response to Specific Comment 8:

In the southwestern corner of Unit 5, vegetation cutting and technology-aided surface removal were conducted in 2013 in support of a prescribed burn planned for Unit s 7 and 10. The burn event occurred in October 2013. DGM was conducted in the southwestern corner of Unit 5 in 2013, after the burn, when DGM survey occurred in Units 7, 10 and 33. This information is provided in the *MRS-BLM Units 7, 10, and 33 MEC Remedial Action, Technical Memorandum, Former Fort Ord, California* (OE-0842). Section 3.2.1 provides a list of remediation dates. For clarification, Section 1.1 Purpose and Scope, third paragraph, fourth sentence will be revised to "The Remedial Action in the southwestern portion of the unit was completed in 2013 as a part of the containment lines to support planned prescribed burns in Units 7 and~~,~~ 10 ~~and 33~~. Digital geophysical mapping in this area was completed after the prescribed burn event in October 2013. This work is addressed in the *MRS-BLM Units 7, 10, and 33 MEC Remedial Action Technical Memorandum, Former Fort Ord, California* (Gilbane, 2015)."

Specific Comment 9:

Section 6.2, Measurement Quality Objectives, Page 18. This section discusses the years when DGM [digital geophysical mapping] was conducted but does not discuss the specific date ranges when each phase of DGM was conducted. Please revise this section to include a discussion of the specific date ranges when DGM occurred.

Response to Specific Comment 9:

This section describes the Measurement Quality Objectives that applied to the DGM operations conducted under the Addendum to Final Work Plan (OE-0626U). Date ranges for DGM (and other work) are listed in Section 3.2.1.

Specific Comment 10:

Section 7.1.1.1, Field Activities, Page 27. This section indicates that at least 10% of each removal grid was subject to a QC analog survey with a Schonstedt magnetometer but does not provide a discussion justifying why a QC survey that was only performed for at least 10% of each removal grid is sufficient. Please revise this section to justify performing a QC survey of only at least 10% of each removal grid.

Response to Specific Comment 10:

A minimum of 10% quality control (QC) survey is consistent with the QC approach for previous MEC removal actions at the former Fort Ord and the 2016 MEC QAPP. Quality control of MEC removal operations includes a field component such as the QC survey of a portion of each completed work grid and

blind seeding. It is also supported by bringing on board appropriately qualified personnel; ensuring that personnel follow SOPs developed for various tasks; performing QC inspections at various stages of each task; and communicating the work and quality information with the Government's quality assurance personnel in a timely manner. Standard operating procedures for QC tasks are further described in UXO SOP 10, *QC of Tasks Related to the Investigation and Management of MEC, and Other Explosives-Related Operations*, provided as an attachment to the MEC QAPP (OE-0884A).

Specific Comment 11:

Section 9.3, Site Characterization, Page 32. This section indicates that no soil samples were collected in Unit 5 but does not discuss the reason for not collecting soil samples within the unit. Please revise this section to (a) include a discussion that justifies not collecting soil samples in Unit 5; and (b) clarify the statement "No soil samples were collected Unit 5.".

Response to Specific Comment 11:

This report addresses MEC remediation work that was performed under the Track 3 Impact Area MRA ROD. Continuation of Basewide Range Assessment (BRA) process to identify potential soil contamination (residues) in the Impact Area MRA is a requirement of the *Final Record of Decision Amendment, Site 39, Former Fort Ord, California* (Site 39 ROD Amendment; RI-041E). Unit 5 has been evaluated for the potential for soil contamination under the BRA process, and soil sampling was not recommended based on the results of a reconnaissance conducted. A summary of this work is provided in Section 9 of the Remedial Action Report. Please refer to the following document for details: *Site Evaluation Results, Basewide Range Assessment Investigation, Unit 5* (BW-2929A).

Specific Comment 12:

Section 9.4, Observations of Evidence of Potential Soil Contamination, Page 32. This section discusses visual inspection for soil contamination but does not provide a discussion justifying the reason visual inspection alone was sufficient to determine whether soil contamination was present. Please revise this section to explain the reason the observations (e.g., berms, craters, and areas with little or no vegetation) of UXO field workers are sufficient to determine that soil contamination is not present.

Response to Specific Comment 12:

In addition to UXO personnel reporting possible evidence of contaminated soil, the BRA program for Unit 5 evaluated the unit for potential soil contamination, as described in the Site 39 ROD Amendment. The BRA reconnaissance that was performed as part of the BRA program included a site walk that inspected the unit for potential soil contamination based on criteria outlined in *Draft Final Basewide Range Assessment Work Plan and Contractor Quality Control Plan, Small Arms and Multi-Use Ranges, Former Fort Ord, California* (BW-2085A). The results of the Unit 5 BRA can be found in the *Site Evaluation Results, Basewide Range Assessment Investigation, Unit 5* (BW-2929A).

RESPONSES TO COMMENTS

Specific Comment 13:

Figure 1, Track 3 Impact Area MRA Regional Location Map. Figure 1 is titled "Track 3 Impact Area MRA Regional Location Map" in the Table of Contents, but "Site Location Map" on the figure. Please revise the Draft RAR to reconcile this discrepancy.

Response to Specific Comment 13:

The figure title was changed to "Track 3 Impact Area MRA Regional Location Map" to match the table of contents.

Specific Comment 14:

Figure 2, Site Layout Figure 2 is titled "Site Layout" in the Table of Contents, but "Site Overview" on the figure. Please revise the Draft RAR to reconcile this discrepancy.

Response to Specific Comment 13:

The table of contents was changed to "Site Overview" to reflect the title of the figure.

RESPONSES TO COMMENTS

Document:	Draft MRS-BLM Unit 05 Munitions and Explosives of Concern (MEC) Remedial Action Report, March 2025
Commenting Organization:	California Department of Toxic Substances Control (DTSC)
Name:	Brett Leary
Date of Comments:	May 5, 2025

Comment 1:

Section 5.2 Analog Subsurface MEC Removal. There appears to be a missing bullet list at the end of the first sentence, "Analog subsurface MEC removal within Unit 5 was conducted in the following areas (see Figure 2)," which is apparently intended to describe each of the areas where analog subsurface MEC removal was performed. The sentence refers the reader to Figure 2 (Site Overview) but does not further describe the areas where analog subsurface MEC removal was performed and Figure 2 does not present that information.

Response to Comment 1:

The figure cited in the text was incorrect. The text was modified to the following: "Subsurface MEC removal within Unit 5 was conducted in areas shown on Figure 3."

The risk reduction anomaly investigation was conducted across Unit 5. Areas without digital geophysical mapping (DGM) survey data were identified as data gaps and were investigated with analog methods. The latter work is described in Section 5.2 and Section 6.3.5.

Comment 2:

Definitions. Add "Cultural Debris/Feature" and its definition to the Definitions section.

Response to Comment 2:

The information has been added to the Definitions section.

Comment 3:

Section 1.1 Purpose and Scope. "Subsurface MEC Removal in Pond 76 - completed in November 2023. (check on language, either subsurface or intrusive investigation?)". Check language and remove note.

Response to Comment 3:

The referenced text has been removed.

RESPONSES TO COMMENTS

Comment 4:

Section 3.2.1. If possible, provide photos from the different phases of the remedial action; perhaps provide an Appendix with relevant photos and annotation.

Response to Comment 4:

An appendix has been added (Appendix J) which contains photos from various site activities.

Comment 5:

Section 6.3.5 Risk Reduction - Large Data Gap Investigation. "...prescribed burn activities, analog subsurface removal was completed in the areas shown on Figure 9." "Results of the large data gap intrusive investigation are shown on Figure 9 and listed in Table 9." Should be Figure 10.

Response to Comment 5:

The reference was changed to Figure 10.

Comment 6:

Figure 9. Figure 9 typo "1) See Table 7 for intrusive investigation result details" should be Table 8.

Response to Comment 6:

The figure has been corrected.

Comment 7:

Figure 10. Figure 10 typo "3) For investigation results, see Table 8 – "Large Data Gap Intrusive Results" should be "Table 8 - Risk Reduction Intrusive Investigation Results".

Response to Comment 7:

The figure has been corrected.

Comment 8:

Section 9.4 Observations of Evidence of Potential Soil Contamination. The title, plus sentences 2 and 3, misled the reader to think that there is soil contamination, but discussion prior to and after indicate that the was no evidence of soil contamination based on visual evidence. Consider rewriting this section for clarity.

RESPONSES TO COMMENTS

Response to Comment 8:

No evidence of soil contamination was observed by either the UXO personnel or during the BRA reconnaissance. An introduction text has been added to Section 9.0 for clarity: "The evaluation of the potential presence of Munitions Constituents in soil within the Impact Area MRS 5 is covered under the *Final Record of Decision Amendment, Site 39, Former Fort Ord, California* (United States Department of the Army, 2009). The results of this evaluation for Unit 5 can be found in the *Site Evaluation Results, Basewide Range Assessment (BRA) Investigation, Unit 5, Former Fort Ord, California* (KEMRON, 2023d). The following sections are presented as a summary of this work." Section 9.3 has been revised to clarify the conclusion of the BRA evaluation of Unit 5.