Appendix E: MDAS Documentation

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This Memorandu	is an acknowledgment Bill of Lading, nor a copy intended collab. for filling	that a Bill of Lading has been y or duplicate, covering the prop	issued and is not Orig perty named herein, an	jinal Id is	Shipper No		·
	intended solely for hing	g of record.			Carrier No		
Page of		(Name o	f carrier)	(SCAC)	Date	9	
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No. of Units & Container Type	UN or NA Number, Prope	BASIC DESCRIPTION r Shipping Name, Hazard Class,	Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
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(2) Where the applicable tariff provisions sp a release or a value declaration by the the carrier's fability or declaration.	er acity a limitation of the carrier's liability absent shipper and the shipper does not release ramer's liability shall be limited to the estert	name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for	COD	Amt: \$	COLL	AID D ECT D \$	
provided by such provisions. See NMFO lise (3) Commodities requiring special or additi roust be so marked and packaged as to en- lion 360, Bills of Lading, Freight Bills and the Contract Terms and Conditions for a lise	n 172. nnai cars or attention in handling or stowing uro sule transportation. See Section 2(e) of Statements of Charges and Section 1(a) of tof such articles.	international and national governmental regulations.	Subject to Section 7 of the c consigners without recourse of following statement: The carrier shall not make treight and all other lawful char (6)	onditions, if this shipment is to be d in the consignor, the consignor is a delivery of this shipment without pess.	Adiversed to the shall sign the At payment of FREXGH Stock	GES S REIGHT CHAR(PREPAID Che hen box at	GES ck box if charges are to be
RECEIVED, subject to the property described tents of packagen unia (the word carrier being possession of the prop nation, if on its recte, o ally agreed as to each	the classifications and faillts in officed on the drift above in apparent good order, except as notes norm), marked, consigned, and destined as in understood throughout this contract as mean- ity under the contract) agrees to carry to the usu- herwise to devire to another carrier on the rou- carrier of all or any of, said property over all or	a of the issue of this Bill of Lading, d (contents and consistion of con- dicated above which said carrier high any person or corporation in high are of delivery at said desti- late assid destination. It is mucu- any portion of said route to des-	Enation and as to each be performed hereander a sifestion on the date of Shipper hereby or governing classification accepted for himself and	party at any time interested in all shall be subject to all the bill of lacin shipment. erifices that he is familiar with all and the said terms and condition d his assigns.	or any said property, tha g terms and conditions in t If the lading terms and s are hereby agreed to b	It every service to the governing dis- conditions in the y the shipper and	
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3-1A	L DAT	and belief does not pose an explosive hazard."	- means as 16	quiret	a by DOD po	ancy an	u to th	e best of my	knowledg	je
JD FORM 1348	27. ADDITIONA	Site Location/Project Number: 112G08005-NW194112 Container/Seal: MDAS-15/2741; MDAS-16/2792; MDAS-17/2708; MDAS-18/2742; MDAS- 23/2758; MDAS-24/2779; MDAS-25/2706; MDAS-26/2795; MDAS-27/2745; MDAS-28/272 MDAS-33/2734; MDAS-34/2720; MDAS-35/2723; MDAS-36/2780; MDAS-37/2772; MDAS- 42/2719 ; MDAS-43/2765; MDAS-44/2748; MDAS-45/2778; MDAS-46/2744; MDAS-47/27	-19/2775; ME 24; MDAS-29/ -38/2716; ME	AS-20 2722; AS-39	0/2793; MDA ; MDAS-30/2 9/2712; MDA	AS-21/2 2731; N AS-40/2	2781; N 1DAS-3 2718; N	//DAS-22/279 1/2711; MD/ //DAS-41/271	4; MDAS- AS-32/272 9; MDAS-	7; ¹⁰

Appendix F: MEC HA Results

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MEC HA Summary Information

	Comments
Site ID: UXO 3 - Site D	
Date: 12/14/2023	
Please identify the single specific area to be assessed in this hazard assessment. From this point forward, all	
references to "site" or "MRS" refer to the specific area that you have defined.	
A. Enter a unique identifier for the site:	
IVO 2 - Site D	
OND STORE D	
Provide a list of information sources used for this hazard assessment. As you are completing the	
worksheets, use the "Select Ref(s)" buttons at the ends of each subsection to select the applicable	
information sources from the list below.	
Ref. No. Title (include version, publication date)	
1 Site Investigation Report (Final, Oct 2023)	
2 Program Preliminary Assessment Report (Final, Feb 2017)	
R. Briefly describe the site	
1 Area (include unite):	
1. Arca (include dinis). 37 acres. 2. Pact munitions related use: 37 acres.	
3. Current land-use activities (list all that occur):	
road/utility/culvert maitenance and construction.	
4. Are changes to the future land-use planned? No	
5. What is the basis for the site boundaries?	
Historic documents and field observations.	
6. How certain are the site boundaries?	
Uncertain; nature and extent have not been defined.	
Deference(c) for Dart B:	
Site Investigation Deport (Final Oct 2022)	
Site investigation Report (Final, Oct 2023)	
Program Preliminary Assessment Report (Final, Feb 2017)	
C. Historical Clearances	
1. Have there been any historical clearances at the site? No, none	
Reference(s) for Part C:	
D. Attach mans of the site below (select 'Insert/Picture' on the menu bar)	
Di matari mapo di the Sice belon (Secce misere) metare on the mena bany	

Add Figure upon completion of step outs

Site ID: UXO 3 - Site D

Date: 12/14/2023

Cased Munitions Information

Item No.	Munition Type (e.g., mortar, projectile, etc.)	Munition Size	Munition Size Units	Mark/ Model	Energetic Material Type	Is Munition Fuzed?	Fuzing Type	Fuze Condition	Minimum Depth for Munition (ft)	Location of Munitions	Comments (include rationale for munitions that are "subsurface only")
1	Bombs	100	lb	AN-M46	Pyrotechnic	No			0.1	Subsurface Only	Surface items removed during SI. Presumed to be in subsurface based on geophysical data and site history.
2	Fuzes			Mk 19	High Explosive	Yes	Impact	UNK	0.1	Subsurface Only	Surface items removed during SI. Presumed to be in subsurface based on geophysical data and site history.

Reference(s) for table above: Site Investigation Report (Final, Oct 2023) Program Preliminary Assessment Report (Final, Feb 2017)

Reference(s) for table above: Site Investigation Report (Final, Oct 2023) Program Preliminary Assessment Report (Final, Feb 2017)



Site ID: UXO 3 - Site D Date: 12/14/2023

Activities Currently Occurring at the Site



Reference(s) for table above:

Site ID:	UXO 3 - Site						
Date:	D 12/14/2023						
Dutoi	12/11/2023						
Energetic	Material Type Input Factor Categorie	es					Comments
The following	g table is used to determine scores associated with er from most hazardous to least hazardous.	the energeti	c materials.	Materials are			
		Baseline	Surface	Subsurface			
		Conditions	Cleanup	Cleanup			
High Explosi	ve and Low Explosive Filler in Fragmenting Rounds	100	100	100			
White Phosp	horus	70	70	70			
Pyrotechnic		60	60	60			
Propellant		50	50	50			
Spotting Cha	rge	40	40	40			
Incendiary	276.0	30	30	30			
The most ha	azardous type of energetic material listed in the	Munitions,	Bulk Explo	osive Info'			
Worksheet	falls under the category 'High Explosive and Lo	w Explosive	Filler in Fi	ragmenting	C		
Rounds'.					Score		
Baseline Con	ditions:					100	
Surface Clea	DUD'					100	
Subsurface (Teanun:					100	
Sabsarrace e	acting.						
Location	of Additional Human Receptors Input	t Factor C	ategorie	5			
1. What is the Explosive Sa	he Explosive Safety Quantity Distance (ESQD) from fety Submission for the MRS?	n the Explosiv	e Siting Pla	n or the		369 feet	Based on the Hazardous Fragment Distance (HFD).
2. Are there	currently any features or facilities where people m	nav condreda	te within th	e MRS. or with	in		
the ESQD an	2				No		
MEC Thom(a)	used to calculate the ECOD for current use activiti	-					
MEC Item(s)	used to calculate the ESQD for current use activity	es				1	
					10	2	
The following	g table is used to determine scores associated with ment use activities):	the location	of addition	al human			
		Baseline	Surface	Subsurface			
		Conditions	Cleanup	Cleanup			
	Inside the MRS or inside the ESQD arc	3	0 3	0 3	30		
	Outside of the ESQD arc		0	0	0		
	the second state of the second state				Conne		
4. Current	use activities are 'Uutside of the ESQD arc', b	based on Qu	estion 2.		Score		
Baseline Con	alaons:					0	
Surface Clea	nup: 1					0	
Subsuriace (Jeanup:					- M.	

Site Accessibility Input Factor Categories

		Baseline	Surface	Subsurface
	Description	Conditions	Cleanup	Cleanup
	No barriers to entry, including signage			
Full Accessibility	but no fencing	80	80	80
	Some barriers to entry, such as barbed			
Moderate Accessibility	wire fencing or rough terrain	55	55	55
Limited Accessibility	Significant barriers to entry, such as unguarded chain link fence or requirements for special transportation to reach the site	15	15	15
Very Limited	A site with guarded chain link fence or terrain that requires special equipment and skills (e.g., rock climbing) to			
Accessibility	access	5	5	5
Current Use Activi	ities			50
Select the category that	t best describes the site accessibility und	er the curren	t use scena	nio:
Moderate Accessib	oility			

Moderate Accession Baseline Conditions: Surface Cleanup: Subsurface Cleanup: 55 55 55



Potential Contact Hours Input Factor Categories

The following table	is used to determine scores associated with	the total pote Baseline	ential contac Surface	t time: Subsurface
	Description	Conditions	Cleanup	Cleanup
Many Hours	≥1,000,000 receptor-hrs/yr	120	90	30
Some Hours	100,000 to 999,999 receptor hrs/yr	70	50	20
Few Hours	10,000 to 99,999 receptor-hrs/yr	40	20	10
Very Few Hours	<10,000 receptor-hrs/yr	15	10	5

Current Use Activities :

Input factors are only determined for baseline conditions for current use activities. Based on the 'Current and Future Activities' Worksheet, the Total Potential Contact Time is: Based on the table above, this corresponds to a input factor score for baseline conditions of: receptor 208 hrs/yr 15 Score

Amount of MEC Input Factor Categories

The following table is used to determine scores associated with the Amount of MEC: Baseline Surface Subsurface							
	Description	Conditions	Cleanup	Cleanup			
Target Area	Areas at which munitions fire was directed	180	120	30			
OB/OD Area	Sites where munitions were disposed of by open burn or open detonation methods. This category refers to the core activity area of an OB/OD area. See the "Safety Buffer Areas" category for safety fans and kick-outs.	180	110	30			
Function Test Range	Areas where the serviceability of stored munitions or weapons systems are tested. Testing may include components, partial functioning or complete functioning of stockpile or developmental items.	165	90	25			
Burial Pit	The location of a burial of large quantities of MEC items.	140	140	10			
Maneuver Areas	Areas used for conducting military exercises in a simulated conflict area or war zone	115	15	5			
Firing Points	The location from which a projectile, grenade, ground signal, rocket, guided missile, or other device is to be ignited, propelled, or released.	75	10	5			
Safety Buffer Areas	Areas outside of target areas, test ranges, or OB/OD areas that were designed to act as a safety zone to contain munitions that do not hit targets or to contain kick-outs from OB/OD areas.	30	10	5			
Storage	Any facility used for the storage of military munitions, such as earth- covered magazines, above-ground magazines, and open-air storage areas.	25	10	5			
Explosive-Related Industrial Facility	Former munitions manufacturing or demilitarization sites and TNT production plants	20	10	5			
Coloct the category the	t bost describes the mast harardana	mount of ME	r.		Score		
OB/OD Area	IL DESL DESCHDES THE MOST HAZARDOUS		L.		50078		
,							

180 110 30

0.1 ft 5 ft

Minimum MEC Depth Relative to the Maximum Intrusive Depth Input Factor Categories *Current Use Activities*

The shallowest minimum MEC depth, based on the 'Cased Munitions Information' Worksheet: The deepest intrusive depth:

The table below is used to determine scores associated with the minimum MEC depth relative to the maximum intrusive depth: Baseline Surface Subsurface

	Conditions	Cleanup	Cleanup	
Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.	240	150)	95
Baseline Condition: MEC located surface and subsurface, After				
MEC.	240	50)	25
Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth overlaps with minimum MEC depth.	150	N/A	L.	95
Baseline Condition: MEC located only subsurface. Baseline				
Condition of After Cleanup: Intrusive depth does not overlap with minimum MEC depth.	50	N/A	L L	25

Because the shallowest minimum MEC depth is less than or equal to the deepest intrusive depth, the intrusive depth will overlap after cleanup. MECs are located only subsurface, based on the 'Munitions, Bulk Explosive Info' Worksheet. Therefore, the category for this input factor is 'Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth overlaps with minimum MEC depth.' For 'Current Use Activities', only Baseline Conditions are considered.

150 Score

Baseline Conditions: Surface Cleanup: Subsurface Cleanup: *Future Use Activities* Deepest intrusive depth: Not enough information has been entered to determine the input factor category.

ft ______

Migration Potential Input Factor Categories		
maradon rotendar induction categories		
Is there any physical or historical evidence that indicates it is	possible for natural physical forces in the	
area (e.g. frost heave erosion) to expose subsurface MEC it	me or move surface or subsurface MEC	
theme?	may of move surface of subsurface Field	
items?	Ies I I I I I I I I I I I I I I I I I I	
If yes, describe the nature of natural forces. Indicate key a	eas or potential migration (e.g., overland	
water flow) on a map as appropriate (attach a map to the bo	tom of this sheet, or as a separate	
worksheet).		
Erosion may cause exposure/burial of near sur	ace items	
The following table is used to determine scores associated wi	h the migration potential	
The following table is abea to determine scores associated in	Baceline Surtace Subcurtace	
	Canditional Classon Classon	
	Conditions Cleanup Cleanup	
Possible	30 30 10	
Unlikely	10 10 10	
Based on the question above, migration potential is 'P	ossible."	
bused on the question upore, migration potential is i	Score	
Baceline Conditions:		30
Carford Classes		30
Surface Cleanup:		30
Subsurface Cleanup:		10
Reference(s) for above information:		
MEC Classification Input Factor Categories		
Cased munitions information has been inputed into th	'Munitions, Bulk Explosive Info'	1
Worksheet: therefore bulk evplosives do not compris	all MECs for this MDS	
The language of MECL and a long on the language		
The Amount of MEC category is 'OB/OD Area'.		
Has a technical assessment shown that MEC in the OB/OD A	rea is DMM? No	
Are any of the munitions listed in the 'Munitions, Bulk Evolosis	e Info' Worksheet: Yes	
· Submunitions		
Difference il di 40 mm en in tite (-1		-
· Kine-propelled 40mm projectiles (of	en called 40mm grenades)	
 Munitions with white phosphorus fill 	er 🛛	
 High explosive anti-tank (HEAT) rou 	nds	5
Hand grenades		
· Fuzes		
• Mortars		
	NEG L C I L	
The following table is used to determine scores associated wi	n MEC classification categories:	
The following table is used to determine scores associated wi	n MEC classification categories: Baseline Surface Subsurface	
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UXO Special Case	n MEL Classification categories: Baseline Surface Subsurface Conditions Cleanup Cleanup 180 180 180 180	
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UXO Special Case UXO Special Case UXO Special Case UXO Fuzed DMM Special Case Fuzed DMM Unfuzed DMM Bulk Explosives Based on your answers above, the MEC classification i Baseline Conditions: Surface Cleanup: Subsurface Cleanup: MEC Size Input Factor Categories The following table is used to determine scores associated wi Description Any munitions (from the 'Munitions Bulk Explosive Info' Worksheet) weig less than 90 lbs; small enough for ; receptor to be able to move and initia	h MEC Size: Baseline Surface Subsurface Conditions Cleanup Cleanup 180 180 180 110 110 110 105 105 105 55 55 55 45 45 45 45 45 45 WXO Special Case'. Score	180 180 180 180
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UXO Special Case UXO Special Case UXO Special Case UXO Special Case UXO Fuzed DMM Special Case Fuzed DMM Bulk Explosives Based on your answers above, the MEC classification i Baseline Conditions: Surface Cleanup: Subsurface Cleanup: MEC Size Input Factor Categories The following table is used to determine scores associated wi Description Any munitions (from the 'Munitions Bulk Explosive Info' Worksheet) weig less than 90 lbs; small a detonation All munitions weigh more than 90 lb	h MEC Size: Baseline Surface Subsurface Conditions Cleanup Cleanup 180 180 180 110 110 110 105 105 105 55 55 55 45 45 45 45 45 45 WXO Special Case'. Score	180 180 180 180
UXO Special Case UXO Special Case UXO Special Case UXO Fizzed DMM Special Case Fizzed DMM Bulk Explosives Based on your answers above, the MEC classification is Baseline Conditions: Surface Cleanup: MEC Size Input Factor Categories The following table is used to determine scores associated wi Description Any munitions (from the 'Munitions Bulk Explosive Info' Worksheet) weig less than 90 lbs; small enough for a receptor to be able to move and initia Small All munitions weigh more than 90 lb Large DXO UXO Special Case UXO UXO Special Case UXO Fizzed DMM Description Any munitions (from the 'Munitions Bulk Explosive Info' Worksheet) weig less than 90 lbs; small enough for a top large to move without environeet	h MEC Size: Baseline Surface Subsurface Conditions Cleanup Cleanup 180 180 180 180 110 110 110 105 105 105 55 55 55 45 45 45 45 45 45 'UXO Special Case'. Score	180 180 180 180
UXO Special Case UXO Special Case UXO Special Case UXO Special Case UXO Fuzed DMM Special Case Fuzed DMM Bulk Explosives Based on your answers above, the MEC classification i Baseline Conditions: Surface Cleanup: Subsurface Cleanup: MEC Size Input Factor Categories The following table is used to determine scores associated wi Description Any munitions (from the 'Munitions Bulk Explosive Info' Worksheet) weig less than 90 lb; small enough for : receptor to be able to move and initia Small All munitions weigh more than 90 lb Large Exand on the definitiene shores action to be movie more than 90 lb	MEC Size: Baseline Surface 100 180 180 110 110 110 105 105 105 55 55 55 45 45 45 45 45 45 45 45 45 6 Surface Score	180 180 180 180 180
UXO Special Case UXO Special Case UXO Special Case UXO Special Case UXO Fized DMM Special Case Fized DMM Bulk Explosives Based on your answers above, the MEC classification is Baseline Conditions: Surface Cleanup: MEC Size Input Factor Categories The following table is used to determine scores associated wi Description Any munitions (from the 'Munitions Bulk Explosive Info' Worksheet) weig less than 90 lbs; small enough for a receptor to be able to move and initia Small All munitions weigh more than 90 lb Large Based on the definitions above and the types of munitions at	MEC Size: Baseline Surface 100 180 180 110 110 110 105 105 105 55 55 55 45 45 45 45 45 45 6'UXO Special Case'. Score	
UXO Special Case UXO Special Case UXO Special Case UXO Fuzed DMM Special Case Fuzed DMM Bulk Explosives Based on your answers above, the MEC classification is Baseline Conditions: Surface Cleanup: Subsurface Cleanup: MEC Size Input Factor Categories The following table is used to determine scores associated wi Description Any munitions (from the 'Munitions Bulk Explosive Info' Worksheet), weig less than 90 lbs; small enough for i receptor to be able to move and initia Small All munitions weigh more than 90 lb Large to for the types of munitions at Info' Worksheet), the MEC Size Input Factor is:	MEC classification categories: Baseline Surface Subsurface Conditions Cleanup Cleanup 180 180 180 110 110 110 105 105 105 55 55 55 45 45 45 45 45 45 6'UXO Special Case'. Score	
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UXO Special Case UXO Special Case UXO Special Case UXO Special Case UXO Fuzed DMM Special Case Fuzed DMM Bulk Explosives Based on your answers above, the MEC classification i Baseline Conditions: Surface Cleanup: MEC Size Input Factor Categories The following table is used to determine scores associated wi Description Any munitions (from the 'Munitions Bulk Explosive Info' Worksheet) weig less than 90 lb; small and enough for a receptor to be able to move and initia Small All munitions weigh more than 90 lb Large too large to move without equipme Based on the definitions above and the types of munitions at Info' Worksheet), the MEC Size Input Factor is: Baseline Conditions: Surface Cleanup:	n MEC classification categories: Baseline Surface Conditions Cleanup 180 180 110 110 105 105 55 55 45 45 45 45 45 45 45 45 45 45 45 45 45 45 6 Surface Subsurface Score	
UXO Special Case UXO Special Case UXO Special Case UXO Fized DMM Special Case Fized DMM Bulk Explosives Based on your answers above, the MEC classification is Baseline Conditions: Surface Cleanup: MEC Size Input Factor Categories The following table is used to determine scores associated wi Description Any munitions (from the 'Munitions Bulk Explosive Info' Worksheet) weig less than 90 lbs; small enough for a receptor to be able to move and initia Small All munitions weigh more than 90 lb Large too large to move without equipme Based on the definitions above and the types of munitions at Info' Worksheet), the MEC Size Input Factor is: Baseline Conditions: Surface Cleanup: Subsurface Cleanup: Baseline Conditions: Surface Cleanup: Baseline Conditions: Baseline Con	h MEC classification categories: Baseline Surface Conditions Cleanup 180 180 110 110 105 105 55 55 45 45 45 45 45 45 45 45 45 45 6'UXO Special Case'. Score	

Scoring Summary

Site ID: UXO 3 - Site D	a. Scoring Summary for Current Use Activities	
Date: 12/14/2023	Response Action Cleanup:	No Response Action
Input Factor	Input Factor Category	Score
I. Energetic Material Type	High Explosive and Low Explosive Filler in Fragmenting Rounds	100
II. Location of Additional Human Receptors	Outside of the ESQD arc	0
III. Site Accessibility	Moderate Accessibility	55
IV. Potential Contact Hours	<10,000 receptor-hrs/yr	15
V. Amount of MEC	OB/OD Area	180
VI. Minimum MEC Depth Relative to Maximum Intrusive Depth	Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth overlaps with minimum MEC depth.	150
VII. Migration Potential	Possible	30
VIII. MEC Classification	UXO Special Case	180
IX. MEC Size	Small	40
	Total Score	750
	Hazard Level Category	2

MEC HA Hazard Level Determination				
Site ID: UXO 3 - Site D Date: 12/14/2023				
	Hazard Level Category	Score		
a. Current Use Activities	2	750		
Characteristics of the MRS				
Is critical infrastructure located within the MRS or within the ESQD arc?				
Are cultural resources located within the MRS or within the ESQD arc?				
Are significant ecological resources located within the MRS or within the ESQD arc?				

MEC HA Summary Information

		Comments
Site ID: UXO 6 - Site 22		
Date: 12/14/2023		
Please identify the single specific area to be assessed in this hazard ass references to "site" or "MDS" refer to the specific area that you have do	sessment. From this point forward, all	
A. Enter a unique identifier for the site:	enneu.	
UXO 6 - Site 22		
Provide a list of information sources used for this hazard assessment.	As you are completing the	
worksheets, use the "Select Ref(s)" buttons at the ends of each subsec	tion to select the applicable	
Ref. No. Title (include version, publication date)		
1 Site Inspection Report (Final, Oct 2023)		
2 Program Preliminary Assessment Report (Final	, Feb 2017)	
P. Priafly describe the site		
1. Area (include units):		
2. Past munitions-related use:		
Storage		Surface disposal only
2. Ourrent land use activities (list all that occur):		expected
4. Are changes to the future land-use planned?	No)
5. What is the basis for the site boundaries?		
Historic documents and field observations.		
b. How certain are the site boundaries? Mostly certain: nature still not defined but extent l	has been defined	
Reference(s) for Part B:		
Site Inspection Report (Final, Oct 2023)		
Program Preliminary Assessment Report (Final, Feb 2017)		
C. Historical Clearances		
1. Have there been any historical clearances at the site?		A partial surface
		clearance was
		of accessible areas
		including step outs.
		The survey included a total area of 2 15
		acres. The survey is
		considered incomplete
	No, none	due to the steep slope of the site.
		All activities were
		performed using fall
		seeding for
		completeness was
		performed.
Reference(s) for Part C:		
D. Attach maps of the site below (select 'Insert/Picture' on th	e menu bar.)	

JAX CUBSHTSAP BANGGRMID/RI REPORTALDENDUM6-3_U/IO_6_2022_RESULTS.MIDD125/24



Site ID: UXO 6 - Site 22 Date: 12/14/2023

Cased Munitions Information

Item No.	Munition Type (e.g., mortar, projectile, etc.)	Munition Size	Munition Size Units	Mark/ Model	Energetic Material Type	Is Munition Fuzed?	Fuzing Type	Fuze Condition	Minimum Depth for Munition (ft)	Location of Munitions	Comments (include rationale for munitions that are "subsurface only")
1	Fuzes			AN-M46	Low Explosive Filler in a fragmenting round	No			¢	Surface and Subsurface	Surface MEC encountered during SI. Subsurface burial is not likely due to the presence of steep slopes.
2	Fuzes			Mk 2 Mod 1	Low Explosive Filler in a fragmenting round	No				Surface and Subsurface	Surface MEC encountered during SI. Subsurface burial is not likely due to the presence of steep slopes.
3	Fuzes			Unknown	Low Explosive Filler in a fragmenting round	No				Surface and Subsurface	Surface MEC encountered during SI. Subsurface burial is not likely due to the presence of steep slopes.

Reference(s) for table above: Site Inspection Report (Final, Oct 2023) Program Preliminary Assessment Report (Final, Feb 2017)

Bulk Explosive Information

Item No.	Explosive Type	Comments	
1	Not applicable		

Reference(s) for table above:



 Site ID:
 UXO 6 - Site 22

 Date:
 12/14/2023

Activities Currently Occurring at the Site



Reference(s) for table above:



	UXO 6 - Site						
Site ID:	22						
Date:	12/14/2023						
Energetic Mate	erial Type Input Factor Categori	es					Comments
The following table i listed in order from i	is used to determine scores associated with most hazardous to least hazardous.	the energeti	ic materials.	Materials a	e		
		Baseline	Surface	Subsurface			
		Conditions	Cleanup	Cleanup			
High Explosive and L	Low Explosive Filler in Fragmenting Rounds	100	100	100			
White Phosphorus		70	70	70			
Pyrotechnic		60	60	60			
Propellant		50	50	50			
Spotting Charge		40	40	40			
Incendiary		30	30	30			
The most hazardou	is type of energetic material listed in the	Munitions,	Bulk Expl	osive Info'			
Worksheet falls un	der the category 'High Explosive and Lo	w Explosive	Filler in Fi	ragmenting			
Rounds'.					Score		
Baseline Conditions						100	
Surface Cleanun						100	
Subsurface Cleanun						100	
Subsurface Cleanup						100	
							-
			_				
Location of Add	ditional Human Receptors Input	Factor C	ategorie	5			
1. What is the Explo	sive Safety Quantity Distance (ESQD) from	the Explosiv	e Siting Pla	n or the		22 feet	Based on the Hazardous Fragment
Explosive Safety Sub	omission for the MRS?						Distance (HFD).
2. Are there current	ty any features or facilities where people m	av condreda	te within th	e MRS. or wit	hin		
the ESQD arc?		ia) congrega			No		
MEC Item(s) used to	calculate the ESQD for current use activiti	es					
						2	
Item #1. Fuzes (L	ow Explosive Filler in a tragmenting r	ouna)	2	2.24			
The following table i receptors (current u	is used to determine scores associated with se activities):	the location	of addition	al human			
		Baseline	Surface	Subsurface			
		Conditions	Cleanup	Cleanup			
Inside t	he MRS or inside the ESQD arc	3	0 3	0	30		
(Outside of the ESQD arc	1	0	0	0		
2027 20 12		2 12 100	122 122		-		
4. Current use act	ivities are 'Outside of the ESQD arc', b	ased on Qu	estion 2.		Score		
Baseline Conditions:						0	
Surface Cleanup:						0	
Subsurface Cleanup:						0	

Site Accessibility Input Factor Categories

	RAN DOMESTIC	Baseline	Surface	Subsurface	
	Description	Conditions	Cleanup	Cleanup	
	No barriers to entry, including signage				
Full Accessibility	but no fencing	80	80	80	
	Some barriers to entry, such as barbed				
Moderate Accessibility	wire fencing or rough terrain	55	55	55	
Limited Accessibility	Significant barriers to entry, such as unguarded chain link fence or requirements for special transportation to reach the site	15	15	15	
Very Limited	A site with guarded chain link fence or terrain that requires special equipment and skills (e.g., rock climbing) to				
Accessibility	access	5	5	5	
Current Use Activi	ties				Score
Select the category that	t best describes the site accessibility und	ler the curren	t use scena	rio:	2
Very Limited Acce	ssibility				

Baseline Conditions: Surface Cleanup: Subsurface Cleanup:

MEC is only present in the areas where extremely steep slopes serve as a barrier to entry. SI conducted using fall protection rope access. Also, UXO danger signs installed at site.

5 5 5

Potential Contact Hours Input Factor Categories

The following table	is used to determine scores associated with	the total pote Baseline	ential contac Surface	t time: Subsurface
	Description	Conditions	Cleanup	Cleanup
Many Hours	≥1,000,000 receptor-hrs/yr	120	90	30
Some Hours	100,000 to 999,999 receptor hrs/yr	70	50	20
Few Hours	10,000 to 99,999 receptor-hrs/yr	40	20	10
Very Few Hours	<10,000 receptor-hrs/yr	15	10	5

Current Use Activities :

Input factors are only determined for baseline conditions for current use activities. Based on the 'Current and Future Activities' Worksheet, the Total Potential Contact Time is: Based on the table above, this corresponds to a input factor score for baseline conditions of: receptor 308 hrs/yr 15 Score

Amount of MEC Input Factor Categories

The following table is u	sed to determine scores associated with	the Amount o Baseline	of MEC: Surface	Subsurface	
	Description	Conditions	Cleanup	Cleanup	
Target Area	Areas at which munitions fire was directed	180	120	30	
OB/OD Area	Sites where munitions were disposed of by open burn or open detonation methods. This category refers to the core activity area of an OB/OD area. See the "Safety Buffer Areas" category for safety fans and kick-outs.	180	110	30	
Function Test Range	Areas where the serviceability of stored munitions or weapons systems are tested. Testing may include components, partial functioning or complete functioning of stockpile or developmental items.	165	90	25	
Burial Pit	The location of a burial of large quantities of MEC items.	140	140	10	
Maneuver Areas	Areas used for conducting military exercises in a simulated conflict area or war zone	115	15	5	
Firing Points	The location from which a projectile, grenade, ground signal, rocket, guided missile, or other device is to be ignited, propelled, or released.	75	10	5	
Safety Buffer Areas	Areas outside of target areas, test ranges, or OB/OD areas that were designed to act as a safety zone to contain munitions that do not hit targets or to contain kick-outs from OB/OD areas.	30	10	5	
Storage	Any facility used for the storage of military munitions, such as earth- covered magazines, above-ground magazines, and open-air storage areas.	25	10	5	
Explosive-Related Industrial Facility	Former munitions manufacturing or demilitarization sites and TNT production plants	20	10	5	
Select the category that best describes the most bazardous amount of MEC: Score					

25 10 5

0 ft 0.1 ft

Minimum MEC Depth Relative to the Maximum Intrusive Depth Input Factor Categories *Current Use Activities*

The shallowest minimum MEC depth, based on the 'Cased Munitions Information' Worksheet: The deepest intrusive depth:

The table below is used to determine scores associated with the minimum MEC depth relative to the maximum intrusive depth: Baseline Surface Subsurface

	Conditions	Cleanup C	Cleanup
Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC. Baseline Condition: MEC located surface and subsurface, After	240	150	95
Cleanup: Intrusive depth does not overlap with subsurface MEC.	240	50	25
Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth overlaps with minimum MEC depth.	150	N/A	95
Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth does not overlap with minimum MEC depth.	50	N/A	25

Because the shallowest minimum MEC depth is less than or equal to the deepest intrusive depth, the intrusive depth will overlap after cleanup. MECs are located at both the surface and subsurface, based on the 'Munitions, Bulk Explosive Info' Worksheet. Therefore, the category for this input factor is 'Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.' For 'Current Use Activities', only Baseline Conditions are considered.

Surface disposal only expected

240 Score

Storage

Baseline Conditions: Surface Cleanup: Subsurface Cleanup: Future Use Activities Deepest intrusive depth: Not enough information has been entered to determine the input factor category.

Migration Potential Input Factor Categories Is there any physical or historical evidence that indicates it is possible for natural physical forces is area (e.g., frost heave, erosion) to expose subsurface MEC items, or move surface or subsurface items? If "yes", describe the nature of natural forces. Indicate key areas of potential migration (e.g., ow water flow) on a map as appropriate (attach a map to the bottom of this sheet, or as a separate worksheet)	n the MEC Yes erland
Erosion may cause exposure/burial of near surface items.	
The following table is used to determine scores associated with the migration potential:	
Baseline Surface Subsurfa	ace
Describle 30 30	10
Unlikely 10 10	10
Based on the question above, migration potential is 'Possible.'	Score
Baseline Conditions:	30
Surface Cleanup:	30
Subsurface Cleanup:	10
Reference(s) for above information:	
Site Inspection Report (Final, Oct 2023)	
Program Preliminary Assessment Report (Final, Feb 2017)	
MEC Classification Input Factor Categories	
Cased munitions information has been inputed into the 'Munitions, Bulk Explosive Inf	o'
Worksheet; therefore, bulk explosives do not comprise all MECs for this MRS.	
The 'Amount of MEC' category is 'Storage'. It is assumed that the MEC items in this M	IDS
are DMM.	
Are any of the munitions listed in the 'Munitions, Bulk Explosive Info' Worksheet:	Yes
Submunitions	
 Rifle-propelled 40mm projectiles (often called 40mm grenades) 	
Munitions with white phosphorus filler	
High explosive anti-tank (HEAT) rounds Hand grepades	
Fuzes	
Mortars	
None of the items listed in the 'Munitions, Bulk Explosive Info' Worksheet were identified a	8
'fuzed'.	~
The following table is used to determine scores associated with MEC classification categories:	
Baseline Surface Subsurfa	ace
Fuzed DMM Special Case Conditions Cleanup Cleanup	190
UXO Special Case 100 100	110
Fuzed DMM Special Case 105 105	105
Fuzed DMM 55 55	55
Unfuzed DMM 45 45	45
Bulk Explosives 45 45	45
Read as some shows the MEC do 10 to 1 to 1 to 10 to 10	Fram
Based on your answers above, the MEC classification is Fuzed DMM Special Case . Baseline Conditions:	105
Surface Cleanup:	105
Subsurface Cleanup:	105
MEO Circ Terret Faster Ostanarias	
The following table is used to determine scores associated with MEC Size	
Baseline Surface Subsurfa	ace
Description Conditions Cleanup Cleanup	
Any munitions (from the 'Munitions, Bulk Explosive Info' Worksheet) weigh less than 90 lbs; small enough for a recentor to be able to move and initiate	
Small a detonation 40 40	40
All munitions weigh more than 90 lbs;	
Large too large to move without equipment 0 0	0
Based on the definitions above and the types of munitions at the site (see 'Munitions, Bulk Explose	ive Small
Info' Worksheet), the MEC Size Input Factor is:	
Pasalina Conditional	score
Surface Cleanun:	40
Subsurface Cleanup:	40

Scoring Summary

Site ID: UXO 6 - Site 22	a. Scoring Summary for Current Use Activities	
Date: 12/14	2023 Response Action Cleanup:	No Response Action
Input Factor	Input Factor Category	Score
I. Energetic Material Type	High Explosive and Low Explosive Filler in Fragmenting Rounds	100
II. Location of Additional Human Receptors	Outside of the ESQD arc	0
III. Site Accessibility	Very Limited Accessibility	5
IV. Potential Contact Hours	<10,000 receptor-hrs/yr	15
V. Amount of MEC	Storage	25
VI. Minimum MEC Depth Relative to Maximum Intr Depth	Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.	240
VII. Migration Potential	Possible	30
VIII. MEC Classification	Fuzed DMM Special Case	105
IX. MEC Size	Small	40
	Total Score	560
	Hazard Level Category	3

MEC HA Hazard Level Determination				
Site ID: UXO 6 - Site 22				
Date: 12/14/2023	Hazard Level Category	Score		
a. Current Use Activities	3	560		
Characteristics of the MRS				
Is critical infrastructure located within the MRS or within the ESQD arc?	Ν	lo		
Are cultural resources located within the MRS or within the ESQD arc?	D No			
Are significant ecological resources located within the MRS or within the ESQD arc?	Yı	es		

MEC HA Summary Information

		Comments
Site ID: UXO 9 - Site OO		
Date: 2/23/2023		
Please identify the single specific area to be assessed in this hazard assessment. From	this point forward, all	
references to "site" or "MRS" refer to the specific area that you have defined.		
A. Enter a unique identifier for the site:		
UXO 9 - Site OO		
Provide a list of information sources used for this hazard assessment. As you are comp	leting the	
worksheets, use the "Select Ref(s)" buttons at the ends of each subsection to select the	applicable	
information sources from the list below.		
Ref. No. Title (include version, publication date)		
1 Site Investigation Report (Internal Draft, Jan 2023)		
2 Program Preliminary Assessment Report (Final, Feb 2017)		
LE NATIVILIE BARNO DE 1600 RDM 16		
B. Briefly describe the site:		
1. Area (include units): 7 acres		
2. Past munitions-related use:		
Safety Buffer Areas		Reportedly used as a
		buffer area for an
		OB/OD range
3. Current land-use activities (list all that occur):		
4. Are changes to the future land-use planned?	lo	
5. What is the basis for the site boundaries?		
Historic documents and previous EOD responses.		
6. How certain are the site boundaries?		
Fairly certain, entire site boundary investigated during SI.		
Reference(s) for Part B:		
Site Investigation Report (Internal Draft, Jan 2023)	ſ	
Program Preliminary Assessment Report (Final, Feb 2017)		
C. Historical Clearances		
1. Have there been any historical clearances at the site?		A partial surface
		clearance was
		performed during the
		SI. 6.3 acres of the
N	o, none	7 acre site was
		surveyed.
		Inaccessible marsh
		areas were not
Deference(c) for Dart C:		surveyed.
Cite Investigation Depart (Internal Draft, Jan 2022)	6	
Site Investigation Report (Internal Draft, Jan 2023)		
rrogram rremninary Assessment Report (Final, Feb 2017)		
D. Attach mans of the site below (select 'Insert/Picture' on the menu har)		



Site ID: UXO 9 - Site OO

Date: 2/23/2023

Cased Munitions Information

Item No.	Munition Type (e.g., mortar, projectile, etc.)	Munition Size	Munition Size Units	Mark/ Model	Energetic Material Type	Is Munition Fuzed?	Fuzing Type	Fuze Condition	Minimum Depth for Munition (ft)	Location of Munitions	Comments (include rationale for munitions that are "subsurface only")
1	Pyrotechnic			L312	Pyrotechnic	No			0.1	Surface and Subsurface	Signal Flare; Surface item removed during SI. Presumed to be in subsurface based on site history.
2	Pyrotechnic			MIS	Pyrotechnic	Yes	Time	UNK	0.1	Surface and Subsurface	Smoke Grenade; Surface item removed during SI. Historical item presumed to be in subsurface based on site history.

Reference(s) for table above: Site Investigation Report (Internal Draft, Jan 2023) Program Preliminary Assessment Report (Final, Feb 2017)

Bulk Explosive Information

Item No. Explosive Type Comments
1 Not applicable

Reference(s) for table above:

Site Investigation Report (Internal Draft, Jan 2023)



 Site ID:
 UXO 9 - Site OO

 Date:
 2/23/2023

Activities Currently Occurring at the Site

Activity No.		Activity	Number of people per year who participate in the activity	Number of hours per year a single person spends on the activity	Potential Contact Time (receptor hours/year)	Maximum intrusive depth (ft)	Comments
	1	Recreational users/visitors	150	120	18,000	0.25	Walking trail at site; assumed 10hrs/month
	2	USACE seeding/tree planting	4	120	480	3	Assumed 10hrs/month
		Total Po	tential Contact Time (r Maxi	eceptor hrs/yr): imum intrusive o	18,480 Jepth at site (ft):	3	

Reference(s) for table above:



UXO 9 - Site Site ID: 00 2/23/2023 Date: **Energetic Material Type Input Factor Categories** Comments The following table is used to determine scores associated with the energetic materials. Materials are listed in order from most hazardous to least hazardous. Baseline Surface Subsurface Conditions Cleanup Cleanup High Explosive and Low Explosive Filler in Fragmenting Rounds 100 100 100 70 70 60 White Phosphorus 70 Pyrotechnic 60 60 50 50 50 Propellant Spotting Charge 40 40 40 30 30 30 Incendiary The most hazardous type of energetic material listed in the 'Munitions, Bulk Explosive Info' Worksheet falls under the category 'Pyrotechnic'. Score Baseline Conditions: 60 60 Surface Cleanup: Subsurface Cleanup: 60 Location of Additional Human Receptors Input Factor Categories 1. What is the Explosive Safety Quantity Distance (ESQD) from the Explosive Siting Plan or the Explosive Safety Submission for the MRS? Non-fragmenting munitions items with no overpressure hazard 0 feet 2. Are there currently any features or facilities where people may congregate within the MRS, or within the ESQD arc? No MEC Item(s) used to calculate the ESQD for current use activities Item #1. Pyrotechnic (Pyrotechnic) The following table is used to determine scores associated with the location of additional human receptors (current use activities): Baseline Surface Subsurface Conditions Cleanup Cleanup 30 0 30 0 30 0 Inside the MRS or inside the ESQD arc Outside of the ESQD arc 4. Current use activities are 'Outside of the ESQD arc', based on Question 2.' Score 0 Baseline Conditions: Surface Cleanup: 0 Subsurface Cleanup: 0

Site Accessibility Input Factor Categories nito acc di dhe

		Baseline	Surface	Subsurface
	Description	Conditions	Cleanup	Cleanup
	No barriers to entry, including signage			
Full Accessibility	but no fencing	80	80	80
Moderate Accessibility	Some barriers to entry, such as barbed wire fencing or rough terrain	55	55	55
Limited Accessibility	Significant barriers to entry, such as unguarded chain link fence or requirements for special transportation to reach the site	15	15	15
Very Limited	A site with guarded chain link fence or terrain that requires special equipment and skills (e.g., rock climbing) to			-
Accessibility	access	5	5	5
Current Use Activi	ities			Score

Select the category that best describes the site accessibility under the current use scenario: Moderate Accessibility Baseline Conditions: Surface Cleanup: Subsurface Cleanup:

55 55 55



Potential Contact Hours Input Factor Categories

The following table i	s used to determine scores associated with	the total pote Baseline	ential contac Surface	t time: Subsurface
	Description	Conditions	Cleanup	Cleanup
Many Hours	≥1,000,000 receptor-hrs/yr	120	90	30
Some Hours	100,000 to 999,999 receptor hrs/yr	70	50	20
Few Hours	10,000 to 99,999 receptor-hrs/yr	40	20	10
Very Few Hours	<10,000 receptor-hrs/yr	15	10	5

Current Use Activities :

Input factors are only determined for baseline conditions for current use activities. Based on the 'Current and Future Activities' Worksheet, the Total Potential Contact Time is: Based on the table above, this corresponds to a input factor score for baseline conditions of: receptor 18,480 hrs/yr 40 Score

Amount of MEC Input Factor Categories

The following table is u	sed to determine scores associated with	the Amount o Baseline	of MEC: Surface	Subsurface
	Description	Conditions	Cleanup	Cleanup
Target Area	Areas at which munitions fire was directed	180	120	30
OB/OD Area	Sites where munitions were disposed of by open burn or open detonation methods. This category refers to the core activity area of an OB/OD area. See the "Safety Buffer Areas" category for safety fans and kick-outs.	180	110	30
Function Test Range	Areas where the serviceability of stored munitions or weapons systems are tested. Testing may include components, partial functioning or complete functioning of stockpile or developmental items.	165	90	25
Burial Pit	The location of a burial of large quantities of MEC items.	140	140	10
Maneuver Areas	Areas used for conducting military exercises in a simulated conflict area or war zone	115	15	5
Firing Points	The location from which a projectile, grenade, ground signal, rocket, guided missile, or other device is to be ignited, propelled, or released.	75	10	5
Safety Buffer Areas	Areas outside of target areas, test ranges, or OB/OD areas that were designed to act as a safety zone to contain munitions that do not hit targets or to contain kick-outs from OB/OD areas.	30	10	5
Storage	Any facility used for the storage of military munitions, such as earth- covered magazines, above-ground magazines, and open-air storage areas.	25	10	5
Explosive-Related Industrial Facility	Former munitions manufacturing or demilitarization sites and TNT production plants	20	10	5
Select the category tha	t best describes the <i>most hazardous</i> a	mount of ME	C:	Score
Safety Buffer Are	as			
Baseline Conditions: Surface Cleanup:				

30 10 5

0.1 ft 3 ft

Minimum MEC Depth Relative to the Maximum Intrusive Depth Input Factor Categories *Current Use Activities*

The shallowest minimum MEC depth, based on the 'Cased Munitions Information' Worksheet: The deepest intrusive depth:

The table below is used to determine scores associated with the minimum MEC depth relative to the maximum intrusive depth: Baseline Surface Subsurface

	Conditions	Cleanup	Cleanup	
Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.	240	150	I	95
Baseline Condition: MEC located surface and subsurface, After Cleanup: Intrusive depth does not overlap with subsurface				
MEC.	240	50		25
Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth overlaps with minimum MEC depth.	150	N/A		95
Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth does not overlap				
with minimum MEC depth.	50	N/A		25

Because the shallowest minimum MEC depth is less than or equal to the deepest intrusive depth, the intrusive depth will overlap after cleanup. MECs are located only subsurface, based on the 'Munitions, Bulk Explosive Info' Worksheet. Therefore, the category for this input factor is 'Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth overlaps with minimum MEC depth.' For 'Current Use Activities', only Baseline Conditions are considered.

150 Score

Subsurface Cleanup:

Future Use Activities Deepest intrusive depth:

ft ______

Not enough information has been entered to determine the input factor category.

Migration Potent Is there any physical or area (e.g., frost heave, items? If "yes", describe the n	ial Input Factor Categories r historical evidence that indicates it is pr erosion) to expose subsurface MEC item ature of natural forces. Indicate key are	ossible for natu ns, or move sur was of potential	ral physica face or sub migration	l forces in the osurface MEC (e.g., overland	Yes	
water flow) on a map a worksheet)	as appropriate (attach a map to the botto	om of this shee	t, or as a s	eparate		
Frosion is nossib	le due to surface water floodi	ng				
The following table is u	sed to determine scores associated with	the migration	potential:			
		Baseline :	Surface	Subsurface		
		Conditions	Cleanup	Cleanup		
Possible		30	30	10		
Unlikely		10	10	10		
Based on the question Baseline Conditions:	on above, migration potential is 'Po	ssible.'			Score	30
Surface Cleanup:						30
Subsurface Cleanup:						10
Reference(s) for above	information:					
Site Investigation R	eport (Internal Draft, Jan 2023)					
MEC Classificatio	n Innut Factor Categories					
Cased munitions info	armation has been inputed into the	Munitions P	ulk Evolo	cive Info'		
Worksheet; therefor	e, bulk explosives do not comprise	all MECs for t	his MRS.	244, 1110		
The 'Amount of MEC assumed that the M	' category is 'Safety Buffer Areas'. 1 EC items from this category are DMI	It cannot be a M. Therefore	utomatic the cons	ally ervative		
Are any of the munition	is listed in the 'Munitions, Bulk Explosive	Info' Workshee	et:		No	
	Submunitions					
	· Rifle-propelled 40mm projectiles (ofte	n called 40mm	grenades)			
	 Munitions with white phosphorus filler 					
	 High explosive anti-tank (HEAT) round 	ds				
	Hand grenades					3
	·Fuzes					
The following table is a	Mortars	MEC classificat	ion enhance	diam.		
The following table is u	ised to determine scores associated with	Baseline	Surface	Subsurface		
	UXO	Conditions		Cleanup		
UXO Special Case		180	180	180		
UXO		110	110	110		
Fuzed DMM Special Cas	se .	105	105	105		
Fuzed DMM		55	55	55		
Unfuzed DMM		45	45	45		
Bulk Explosives		45	45	45		
					-	
Based on your answ	ers above, the MEC classification is	'UXO'.			Score	110
Surface Cleanup:						110
Subsurface Cleanup						110
sassanace ereanapi						
MEC Size Input F	actor Categories	1000				
I ne tollowing table is u	ised to determine scores associated with	MEC Size: Baseline	Surface	Subsurface		
	Description	Conditions	Cleanup	Cleanup		
	Any munitions (from the 'Munitions, Bulk Explosive Info' Worksheet) weigh less than 90 lbs; small enough for a					
Small	a detension	40	40	40		
	a ucconduori	UF	-10	40		
Large	All munitions weigh more than 90 lbs;	0	0	0		
Based on the definition	s above and the types of munitions at th	e site (see 'Mu	nitions Ru	k Explosive		
Info' Worksheet), the M	AFC Size Input Factor is:	ic site (see MU	nuons, du	in Explosive	Small	
and monaneout the					Score	
Baseline Conditions:						40
Surface Cleanup:						40
Subsurface Cleanup:						40

Scoring Summary

Site ID: UXO 9 - Site OO		a. Scoring Summary for Current Use Activities	
Date:	2/23/2023	Response Action Cleanup:	No Response Action
Input Factor		Input Factor Category	Score
I. Energetic Material Type		Pyrotechnic	60
II. Location of Additional Human Rece	ptors	Outside of the ESQD arc	0
III. Site Accessibility		Moderate Accessibility	55
IV. Potential Contact Hours		10,000 to 99,999 receptor-hrs/yr	40
V. Amount of MEC		Safety Buffer Areas	30
VI. Minimum MEC Depth Relative to Maximu Depth	m Intrusive	Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth overlaps with minimum MEC depth.	150
VII. Migration Potential		Possible	30
VIII. MEC Classification		UXO	110
IX. MEC Size		Small	40
		Total Score	515
		Hazard Level Category	4

MEC HA Hazard Level Determination							
Site ID: UXO 9 - Site OO							
Date: 2/23/2023							
	Hazard Level Category	Score					
a. Current Use Activities	4	515					
Characteristics of	the MRS						
Is critical infrastructure located within the MRS or within the ESQD arc?	Ν	lo					
Are cultural resources located within the MRS or within the ESQD arc?	Ν	lo					
Are significant ecological resources located within the MRS or within the ESQD arc?	Y	es					

MEC HA Summary Information

MEC HA Summary Information		Comments
Site ID: UXO 16 - Site LL		
Date: 12/14/2023		
Please identify the single specific area to be assessed in this hazard as references to "site" or "MRS" refer to the specific area that you have d A. Enter a unique identifier for the site:	sessment. From this point forward, all efined.	
UXO 16 - Site LL		
Provide a list of information sources used for this hazard assessment. use the "Select Ref(s)" buttons at the ends of each subsection to select from the list below. Ref. No. Title (include version, publication date)	As you are completing the worksheets, t the applicable information sources	
1 Site Investigation Report (Final, Oct 2023)		
Program Preliminary Assessment Report (Final 2 2017)	l, Feb	
B. Briefly describe the site:		
1. Area (include units): 10 acre		
2. Past munitions-related use:		
OB/OD Area		Burn Pit
3. Current land-use activities (list all that occur):	patruati ap %	
4. Are changes to the future land-use planned?	No.	
5. What is the basis for the site boundaries?	10	
Historic documents and field observations.		
6. How certain are the site boundaries?		
Uncertain; nature and extent have not been defined.		
Reference(s) for Part B:		
Site Investigation Report (Final, Oct 2023) Program Preliminary Assessment Report (Final, Feb 2017)		
C. Historical Clearances		
1. Have there been any historical clearances at the site?	No, none	
		A partial surface clearance was performed during the SI. A detector aided surface survey was performed on a total of 7.3 acres of the 10 acre site. Inaccessible sloped areas were not surveyed. Previously during security fence installation activities within the eastern portion of the site
		a munitions response action was conducted within the fence installation area consisting of excavation and screening of soils and debris for the presence of MEC and MPPEH. Over 1,000 pounds of MDAS (Inert/Dummy Rounds) were recovered. No MEC or MDEH were recovered.
Reference(s) for Part C:		
Site Investigation Report (Final, Oct 2023)		
D. Attach maps of the site below (select 'Insert/Picture' on th	he menu bar.)	



Site ID: UXO 16 - Site LL Date: 12/14/2023

Cased Munitions Information

tem No.	Munition Type (e.g., mortar, projectile, etc.)	Munition Size	Munition Size Units	Mark/ Model	Energetic Material Type	Is Munition Fuzed?	Fuzing Type	Fuze Condition	Minimum Depth for Munition (ft)	Location of Munitions	Comments (include rationale for munitions that are "subsurface only")
1	Artillery	20	mm		High Explosive	No			0.01	Surface and Subsurface	Anticipated Dummy Round
2	Artillery	40	mm		High Explosive	No	Î.	1	0.01	Surface and Subsurface	Anticipated Dummy Round
3	Artillery	3	inches		High Explosive	No			0.01	Surface and Subsurface	Anticipated Dummy Round
4	Artillery	5	inches		High Explosive	No			0.01	Surface and Subsurface	Anticipated Dummy Round
5	Artillery	6	inches		High Explosive	No			0.01	Surface and Subsurface	Anticipated Dummy Round

Reference(s) for table above: Site Investigation Report (Final, Oct 2023) Program Preliminary Assessment Report (Final, Feb 2017)

Bulk Explosive Information

Item No.	Explosive Type	Comments	
1	Not applicable		

Reference(s) for table above:



 Site ID:
 UXO 16 - Site LL

 Date:
 12/14/2023

Activities Currently Occurring at the Site

Program Preliminary Assessment Report (Final, Feb 2017)



	UXO 16 - Site						
Site ID:	Ц						
Date:	12/14/2023						
Energetic Materi	al Type Input Factor Categori	es					Comments
The following table is	used to determine scores associated with	n the energeti	c materials.	Materials are			
listed in order from mo	ost nazardous to least nazardous.	Baseline	Surface	Subsurface			
		Conditions	Cleanup	Cleanup			
High Explosive and Lo	w Explosive Filler in Fragmenting Rounds	100	100	100			
White Phosphorus		70	70	70			
Pyrotechnic		60	60	60			
Propellant		50	50	50			
Spotting Charge		40	40	40			
Incendiary		30	30	30			
The most hazardous	type of energetic material listed in the	Munitions.	Bulk Explo	sive Info'			
Worksheet falls under	r the category 'High Explosive and Lo	w Explosive	Filler in Fr	agmenting			
Rounds'.		•			Score		
Baseline Conditions:						100	
Surface Cleanup:						100	
Subsurface Cleanup:						100	
1.22							
Location of Addi	tional Human Receptors Inpu	t Factor Ca	ategories	5			
1. What is the Explosi Explosive Safety Subm	ive Safety Quantity Distance (ESQD) from	n the Explosiv	e Siting Pla	n or the		450 feet	Based on the Hazardous Fragment Distance (HED)
2 Are there currently	any features or facilities where people r	nav congrega	te within the	MRS or within			bisbunic (mb).
the ESQD arc?	any reactines of racindes where people in	nay congrega		crito, or widin	Yes		
3. Please describe the	facility or feature.						
Buildings are present							
MEC Item(s) used to c	alculate the ESQD for current use activit	ies				1	
1041 (10121020) 02012	1217 2211032					1	
Item #1. Fuzes (20	mm, Propellant)		12002200000	A DAY DOWN		l	
The following table is receptors (current use	used to determine scores associated with activities):	n the location	of additiona	al human			
		Baseline	Surface	Subsurface			
		Conditions	Cleanup	Cleanup			
Inside the	MRS or inside the ESQD arc	30	0 3	0 30			
OL	tside of the ESQU arc						
4. Current use activ	ities are 'Inside the MRS or inside t	he ESQD arc	', based or	Question 2.	Score		
Baseline Conditions:						30	
Surface Cleanup:						30	
Subsurface Cleanup:						30	

-	Description	Baseline	Surface	Subsurface	
	No barriere to entry including signage	Contaidona	cicanap	Giodnup	
Full Accessibility	but no fencing	80	8	0	80
	Some barriers to entry, such as barbed				
Moderate Accessibility	wire fencing or rough terrain	55	5 5	5	55
imited Accessibility	Significant barriers to entry, such as unguarded chain link fence or requirements for special transportation to reach the site	15	5 1	5	15
	A site with guarded chain link fence or terrain that requires special equipment				
Very Limited	and skills (e.g., rock climbing) to				
Accessibility	access	5	5 (5	5
Current Use Activi	ties				Score
Select the category that	t best describes the site accessibility und	er the currer	nt use scena	ario:	

Surface Cleanup: Subsurface Cleanup: 15 15 15



Potential Contact Hours Input Factor Categories

The following table is	s used to determine scores associated with	the total pote	ential contac	t time:
		Baseline	Surface	Subsurface
	Description	Conditions	Cleanup	Cleanup
Many Hours	≥1,000,000 receptor-hrs/yr	120	90	30
Some Hours	100,000 to 999,999 receptor hrs/yr	70	50	20
Few Hours	10,000 to 99,999 receptor-hrs/yr	40	20	10
Very Few Hours	<10,000 receptor-hrs/yr	15	10	5

Current Use Activities :

Input factors are only determined for baseline conditions for current use activities. Based on the 'Current and Future Activities' Worksheet, the Total Potential Contact Time is: Based on the table above, this corresponds to a input factor score for baseline conditions of: receptor 128 hrs/yr 15 Score

Amount of MEC Input Factor Categories

The following table is u	sed to determine scores associated with	the Amount o Baseline	of MEC: Surface	Subsurface		
	Description	Conditions	Cleanup	Cleanup		
Target Area	Areas at which munitions fire was directed	180	120	30		
OB/OD Area	Sites where munitions were disposed of by open burn or open detonation methods. This category refers to the core activity area of an OB/OD area. See the "Safety Buffer Areas" category for safety fans and kick-outs.	180	110	30		
Function Test Range	Areas where the serviceability of stored munitions or weapons systems are tested. Testing may include components, partial functioning or complete functioning of stockpile or developmental items.	165	90	25		
Burial Pit	The location of a burial of large quantities of MEC items.	140	140	10		
Maneuver Areas	Areas used for conducting military exercises in a simulated conflict area or war zone	115	15	5		
Firing Points	The location from which a projectile, grenade, ground signal, rocket, guided missile, or other device is to be ignited, propelled, or released.	75	10	5		
Safety Buffer Areas	Areas outside of target areas, test ranges, or OB/OD areas that were designed to act as a safety zone to contain munitions that do not hit targets or to contain kick-outs from OB/OD areas.	30	10	5		
Storage	Any facility used for the storage of military munitions, such as earth- covered magazines, above-ground magazines, and open-air storage areas.	25	10	5		
Explosive-Related Industrial Facility	Former munitions manufacturing or demilitarization sites and TNT production plants	20	10	5		
Select the category that best describes the mest barardeus amount of MEC:						
OB/OD Area			. .			

Minimum MEC Depth Relative to the Maximum Intrusive Depth Input Factor Categories Current Use Activities

Baseline Conditions: Surface Cleanup: Subsurface Cleanup:

The shallowest minimum MEC depth, based on the 'Cased Munitions Information' Worksheet: The deepest intrusive depth:

The table below is used to determine scores associated with the minimum MEC depth relative to the maximum intrusive depth: Baseline Surface Subsurface

	Conditions	Cleanup	Cleanup	
Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.	240	150	95	
Baseline Condition: MEC located surface and subsurface, After Cleanup: Intrusive depth does not overlap with subsurface				
MEC. Baseline Condition: MEC located only subsurface. Baseline	240	50	25	
Condition or After Cleanup: Intrusive depth overlaps with minimum MEC depth.	150	N/A	95	
Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth does not overlap				
with minimum MEC depth.	50	N/A	25	

Because the shallowest minimum MEC depth is less than or equal to the deepest intrusive depth, the intrusive depth will overlap after cleanup. MECs are located only subsurface, based on the 'Munitions, Bulk Explosive Info' Worksheet. Therefore, the category for this input factor is 'Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth overlaps with minimum MEC depth.' For 'Current Use Activities', only Baseline Conditions are considered.

Surface/Subsurface disposal 150 Score

180 110 30

0.01 ft 0.1 ft Future Use Activities Deepest intrusive depth: Not enough information has been entered to determine the input factor category.

ft Score

Migration Potent	ial Input Factor Categories							
Is there any physical or	historical evidence that indicates it is	possible for nat	tural physic	al forces in the	•			
area (e.g., frost neave, erosion) to expose subsurface MEC items, or move suifface or subsurface MEC items?								
If "yes", describe the n	ature of natural forces. Indicate key a	reas of potentia	al migration	(e.g., overlan	d		-	
water flow) on a map a worksheet).	is appropriate (attach a map to the bot	tom of this she	et, or as a	separate				
Erosion may cause	exposure/burial of near sur	face items.						
The following table is u	sed to determine scores associated wit	th the migration	potential:	Cubautaca				
		Conditions	Cleanun	Cleanun				
Possible		30	30) 1	.0		-	
Unlikely		10	10) 1	.0			
					-			
Based on the question	on above, migration potential is 'P	ossible.'			Score	30		
Surface Cleanup:						30		
Subsurface Cleanup:						10		
Deference(a) for about	information							
Reference(s) for above	iniormauon:					4		
MEC Classificatio	n Input Factor Categories							
Cased munitions info	ormation has been inputed into th	e 'Munitions,	Bulk Explo	sive Info'				_
Worksheet; therefor	e, bulk explosives do not comprise	all MECs for	this MRS.					
The 'Amount of MEC	' category is 'OB/OD Area'.							
					5			
Has a technical assess	ment shown that MEC in the OB/OD A	rea is DMM?	oot:		No			
Are any or the multidon	Submunitions	C IIIO WORSH	CCL.		10			_
	· Rifle-propelled 40mm projectiles (of	ten called 40mr	m grenades)				
	 Munitions with white phosphorus fill 	er						
	High explosive anti-tank (HEAT) rou	nds						
	Hand grenades Fuzes							
	Mortars						-	
None of the items list	ed in the 'Munitions, Bulk Explosive	Info' Workshe	et were ide	entified as				
'fuzed'.								
The following table is u	sed to determine scores associated wit	th MEC classific	ation categ	ories:				
	Unfuzed DMM	Conditions	Cleanup	Cleanup				
UXO Special Case		180	180	18	0			
UXO		110	110) 11	.0			
Fuzed DMM Special Cas	e .	105	105	10	15			
Linfurged DMM		45	4		5		-	
Bulk Explosives		45	45	5 4	5		-	
							1	_
Based on your answ	ers above, the MEC classification i	s 'Unfuzed DM	1M'.		Score	1.22		
Baseline Conditions:						45		
Subsurface Cleanup:						45	-	
MEC Size Input F	actor Categories	H MEC Cine						
The following table is u	sed to determine scores associated wit	Baseline	Surface	Subsurface				
	Description	Conditions	Cleanup	Cleanup				
	Any munitions (from the 'Munitions,							
	less than 90 lbs; small enough for a	n						
	receptor to be able to move and initia	te						
Small	a detonation	40) 40) 4	ю			
	All munitions weigh more than 90 lbs	5;						
Large	too large to move without equipment	t O	(ll cul	0			
based on the definition	s above and the types of munitions at	the site (see M	iunitions, Bi	lik Explosive	Smc 11			
this worksheet, the r	ice size input racionis.				Score			_
Baseline Conditions:					000006677	40		
Surface Cleanup:						40		
Subsurface Cleanup:						40		

Scoring Summary

Site ID: UXO 16 - Site LL	a. Scoring Summary for Current Use Activities	
Date: 12/14/20	23 Response Action Cleanup:	No Response Action
Input Factor	Input Factor Category	Score
I. Energetic Material Type	High Explosive and Low Explosive Filler in Fragmenting Rounds	100
II. Location of Additional Human Receptors	Inside the MRS or inside the ESQD arc	30
III. Site Accessibility	Limited Accessibility	15
IV. Potential Contact Hours	<10,000 receptor-hrs/yr	15
V. Amount of MEC	OB/OD Area	180
VI. Minimum MEC Depth Relative to Maximum Intrusive Depth	Baseline Condition: MEC located only subsurface. Baseline Condition or After Cleanup: Intrusive depth overlaps with minimum MEC depth.	150
VII. Migration Potential	Possible	30
VIII. MEC Classification	Unfuzed DMM	45
IX. MEC Size	Small	40
	Total Score	605
	Hazard Level Category	3

MEC HA Hazard Level Determination					
Site ID: UXO 16 - Site LL					
Date: 12/14/2023					
	Hazard Level Category	Score			
a. Current Use Activities	3	605			
Characteristics of the MRS					
Is critical infrastructure located within the MRS or within the ESQD arc?	Yes				
Are cultural resources located within the MRS or within the ESQD arc?	Ν	lo			
Are significant ecological resources located within the MRS or within the ESQD arc?	Ν	lo			

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