

APPENDIX J
MEC HA TABLES

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Site ID: **FUDS No. D01MA0595 (Former Cape Poge Little Neck Bomb Target Area of Investigation)**
Date: **4/30/2012**

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	Hiking, Biking, Recreational Activities	2,600	48	124,800	1	1 trip per month; 4 hours per trip
2	Residential	50	5,840	292,000	4	16 hours per day, year round
3	TTOR Maintenance	4	390	1,560	2	
4						
5						
6						
7						
8						
9						
10						
11						
12						
Total Potential Contact Time (receptor hrs/yr):				418,360		
Maximum intrusive depth at site (ft):					4	

Reference(s) for table above:

Draft Preliminary Assessment, Cape Poge Little Neck Bomb Target Site, Chappaquiddick Island, MA, FUDS Property Number - D01MA0595. USACE, 2009.



B. Briefly describe the site:

1. Area (include units):	236 (No. D01MA0595 - 141 acres)	The FUDS boundary was expanded based upon previously identified MEC and/or MD.
2. Past munitions-related use:		
Target Area		
3. Current land-use activities (list all that occur):		
Hiking, biking, recreational activities, residential, and TTOR maintenance		
4. Are changes to the future land-use planned?	No	
5. What is the basis for the site boundaries?		
The expanded Area of Investigation boundary was based upon previously identified MEC and/or MD.		
6. How certain are the site boundaries?		
Site boundaries can be reduced based on RI field work, but the former target areas is highly contaminated.		
Reference(s) for Part B:		
Visual Ordnance Sweep Report. VRHabilis, 2008.		
Draft Preliminary Assessment, Cape Poge Little Neck Bomb Target Site, Chappaquiddick Island, MA, FUDS Property Number - D01MA0595. USACE, 2009.		
Draft Final Site Specific Final Report For The Time Critical Removal Action (TCRA) at Former Cape Poge Little Neck Bomb Target Site, Chappaquiddick Island, Dukes County, Massachusetts, and Former Movig Target Machine Gun Range at South Beach, Martha's Vineyard, Edgartown, Massachusetts. USACE, 2010.		
Final Revision 3, Remedial Investigation Work Plan: Former Cape Poge Little Neck Bomb Target MRS, Former Moving Target Machine Gun Range at South Beach MRS, Tisbury Great Pond MRS, Martha's Vineyard, Massachusetts. UXB, 2011.		

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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	3	lb	AN-MK23	Spotting Charge	No			0	Surface and Subsurface	From PA, RI investigation
2	Bombs	3	lb	AN-MK5	Spotting Charge	No			0	Surface and Subsurface	From TCRA

Reference(s) for table above:

Draft Preliminary Assessment, Cape Poge Little Neck Bomb Target Site, Chappaquiddick Island, MA, FUDS Property Number - D01MA0595. USACE, 2009.
Draft Final Site Specific Final Report For The Time Critical Removal Action (TCRA) at Former Cape Poge Little Neck Bomb Target Site, Chappaquiddick Island, Dukes County, Massachusetts, and Former Movig Target Machine Gun Range at South Beach, Martha's Vineyard, Edgartown, Massachusetts. USACE, 2010.
Final Revision 3, Remedial Investigation Work Plan: Former Cape Poge Little Neck Bomb Target MRS, Former Moving Target Machine Gun Range at South Beach MRS, Tisbury Great Pond MRS, Martha's Vineyard, Massachusetts. UXB, 2011.



Bulk Explosive Information

Item No.	Explosive Type	Comments
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

Reference(s) for table above:

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 Conditions	Surface Cleanup	Subsurface 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.	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.

Future Use Activities

Deepest intrusive depth:

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

0 ft

4 ft

240 Score

ft

Score

Scoring Summary

Site ID:	FUDS No. D01MA0595 (Former Cape Poge Little Neck Bomb Target Area of Investigation)	a. Scoring Summary for Current Use Activities
Date:	4/30/2012	Response Action Cleanup:
Input Factor		Input Factor Category
I. Energetic Material Type		Spotting Charge
II. Location of Additional Human Receptors		Inside the MRS or inside the ESQD arc
III. Site Accessibility		Full Accessibility
IV. Potential Contact Hours		100,000 to 999,999 receptor hrs/yr
V. Amount of MEC		Target Area
VI. Minimum MEC Depth Relative to Maximum Intrusive Depth		Baseline Condition: MEC located surface and subsurface. After Cleanup: Intrusive depth overlaps with subsurface MEC.
VII. Migration Potential		Possible
VIII. MEC Classification		UXO
IX. MEC Size		Small
		Total Score
		Hazard Level Category

Site ID:	FUDS No. D01MA0595 (Former Cape Poge Little Neck Bomb Target Area of Investigation)	b. Scoring Summary for Future Use Activities
Date:	4/30/2012	Response Action Cleanup:
Input Factor		Input Factor Category
I. Energetic Material Type		
II. Location of Additional Human Receptors		
III. Site Accessibility		
IV. Potential Contact Hours		
V. Amount of MEC		
VI. Minimum MEC Depth Relative to Maximum Intrusive Depth		
VII. Migration Potential		
VIII. MEC Classification		
IX. MEC Size		
		Total Score
		Hazard Level Category

Site ID:	FUDS No. D01MA0595 (Former Cape Poge Little Neck Bomb Target Area of Investigation)	c. Scoring Summary for Response Alternative 1:
Date:	4/30/2012	Response Action Cleanup:
Input Factor		Input Factor Category
I. Energetic Material Type		Spotting Charge
II. Location of Additional Human Receptors		Inside the MRS or inside the ESQD arc
III. Site Accessibility		
IV. Potential Contact Hours		
V. Amount of MEC		Target Area
VI. Minimum MEC Depth Relative to Maximum Intrusive Depth		
VII. Migration Potential		Possible
VIII. MEC Classification		JXO
IX. MEC Size		Small
		Total Score
		Hazard Level Category

MEC HA Hazard Level Determination			
Site ID:	FUDS No. D01MA0595 (Former Cape Poge Little Neck Bomb Target Area of		
Date:	4/30/2012		
		Hazard Level Category	Score
a. Current Use Activities		2	820
b. Future Use Activities			
c. Response Alternative 1:			
d. Response Alternative 2:			
e. Response Alternative 3:			
f. Response Alternative 4:			
g. Response Alternative 5:			
h. Response Alternative 6:			
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?		Yes	
Are significant ecological resources located within the MRS or within the ESQD arc?		Yes	