

**FIRING/NONFIRING DATA** Log # 3-19-11

For use of this form see USAIC Regulation 350-19; the proponent agency is DPTMS

<b>TO:</b> Chief, Range Division, Directorate of Plans, Training, Mobilization and Security Fort Benning, GA 31905	<b>Date:</b> 09MAR11 <b>Range:</b> F1-10, G1-8, H1-5, CAMP DARBY, ALL LZ/PZs INCLUDED <b>Title:</b> Ambush DES Construction / Use (RB1R16) <b>Problem No:</b>
<b>THRU:</b> TNB, DOT	<b>FROM:</b> S-3, 4TH RANGER TRAINING BATTALION

**SECTION I, TYPE OF TRAINING**

a. Live Fire     
  b. Non-live Fire     
 CP/Controller Coordinates: GA 19457885 Darby PI/Camp Darby

**SECTION II, DEMOLITIONS/GRENADES/MINES/PYROTECHNICS**

Coordinates	Type	Model/DODAC	Size of Charges
F1-10, G1-8, H1-5, CAMP DARBY, ANZIO-1, CYCLONE, HOLLIS, LEDO	CORD, DET PETN NEW/FT	M456	1 Each
1&2, MORGAN, MOSBY, ORION, PURDY	CAP, BLAST NON-ELEC 7.5FT SHOCK TUBE XM/M14 MDI	MN06	7.5 Feet
	IGNITER, TIME BLAST FUSE XM/M81	MN08	1 Each
	SIMULATOR, PROJ GRND BURST SIMULATOR, HAND GREN	L594 L601	1 Each 1 Each

**SECTION III, WEAPONS/AMMUNITION REQUESTED**

Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
F1-10, G1-8, H1-5, CAMP DARBY, ANZIO-1, CYCLONE, HOLLIS, LEDO	M-4	5.56 MM BLANK (A080)	N/A	N/A
1&2, MORGAN, MOSBY, ORION, PURDY	M-249	5.56 MM LINK BLANK (A075)	N/A	N/A
	M-240	7.62 MM LINK BLANK (A111)	N/A	N/A

**SECTION IV, LIVE FIRE EXERCISES Attach the following:**

Scenario of training to be conducted:  
 Sketch of area:  
 Risk Assessment:  
 Attach FB Form 350-19-2-E-R if Mortar or artillery is being fired:

**SECTION V, NON-LIVE FIRE TRAINING**

**Training area(s) to be occupied:**  
 Scenario of training to be conducted:  
 Sketch of area(s) to be occupied:  
 Risk Assessment:

Name/rank of requesting officer: Bryan D. Johnson, SFC, 4TH RTB Resource NCOIC	Name/rank of Major Unit S3/Commander: Mark J. Wade, MAJ, IN, 4TH RTB XO
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**SECTION VI, FOR RANGE DIVISION USE**

<b>TO:</b> 4TH Ranger Training Battalion 10850 Schneider Rd. Fort Benning, GA 31905	<b>DATE:</b> 4 Apr 11 <b>FROM:</b> Range Division, Directorate of Plans, Training, Mobilization and Security Fort Benning, GA 31905
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**a. Roadblocks to be closed:**  
**b. Road(s) to be closed/road barrier locations:**  
**c. Remarks:**  
**d. This approval expires:** 3 Apr 13

Chief, Range Division  
Directorate of Plans, Training, Mobilization and Security

*Bryan S. Tuck*



**DEPARTMENT OF THE ARMY**  
4th Ranger Training Battalion  
Ranger Training Brigade  
Fort Benning Georgia 31905

ATSH-RBD-O (350)

09 MAR 11

MEMORANDUM FOR RECORD

SUBJECT: Concept for Darby Phase Training (RB1R16)

1. The following is the concept for the 4<sup>th</sup> Ranger Training Battalion's Darby Phase Training.
2. The 4<sup>th</sup> RTBn will conduct Darby Phase Training on Day 4-18 of our normal POI Cycle. The time for conducting this training will be IAW the 4<sup>th</sup> RTBn Training Schedule and coordinated for through DOT on POI Training. During the training, the Ranger students will conduct ambush patrols using blanks and simulators. Prior to the conclusion of an ambush, the Ranger students will set the Demolitions Effect Simulator (DES) while under the supervision of a qualified Ranger Instructor, E-6 and above, to simulate the destruction of enemy equipment. The DES will consist of no more than 6 feet of Det-Cord (M456), no less than 1 minute of time fuse and 2 non-electric blasting caps, included with (MN06) M14 System, and 2 fuse igniters (MN08) M81; sand packed in a cardboard box will simulate the explosive.
3. Ranger Instructor will control when the Ranger student will execute the ignition of the DES. Once the Ranger Instructor clears the Ranger student to initiate the DES he will ensure that the Ranger students move immediately 50 meters (DES SDZ) away from the initiated charge. Once the charge has been detonated, the Ranger Instructor will move to the Demo-site to ensure the proper detonation of the charge. This will be the sequence of events executed when initiating a DES at all the ambush sites. Once the DES has detonated, the Ranger Instructor will check the area for debris.
4. 4<sup>th</sup> RTBn will be responsible for ensuring that no one walks through the SDZ designated (possibly incurring injury) until after the DES charge has detonated. The sites used for the DES will be monitored by Ranger Instructors and will not be marked by range flag. Also, the S-3 Air will be responsible for briefing the pilots on how the Ranger Students will carry the DES on the helicopter if the ambush patrol is being inserted by rotary wing asset.
5. The Ranger Instructor and Ranger Students will receive a certification class (RB1R26, Enhanced Demolitions) on construction and initiation of a DES IAW FM 5-250 and ST 5-250-1 prior to use of the simulator in support of ambush patrols. These devices will be handled and detonated by the Ranger students under the supervision of a qualified Ranger Instructor, E-6 and above. The Ranger instructor and Ranger students will have hearing protection, eye protection, Army Combat Helmet (ACH), and Gloves will be utilized when handling these items. Only RIs will handle misfires and will ensure all personnel are outside of the danger area (50-meters for DES). Misfire Procedures will be handled in accordance with FM 5-250.
6. An FLA with Medical personnel will be at intersection of Red Diamond Rd. and Cyclone Rd. The Senior Medic will be at Camp Darby on standby to receive and support any critical emergencies reported. And the following PZ/LZ/DZs will be utilized for Ranger Insertion/Extraction from the Area of Operations and for MEDEVAC procedures: Anzio, Cyclone, Hollis, Ledo-1, Ledo-2, Mosby, Morgan, Orion, and Purdy. Rogers Aid Station will be operational to receive critical emergencies and if the injury cannot be treated at Rogers Aid Station. The injured person will be transported to MACH.

ATSH-RBD-O (350)

SUBJECT: Concept for Darby Phase Training (RB1R16)

7. Communication Requirements: Range OIC/RSO will immediately place range on check fire upon loss of communication and remain on check fire until communication is re-established.
8. When an incident occurs resulting in an injury an immediate report will be made by the OIC/RSO of the unit training to the Range Control Radio Room. See MCOE Regulation 350-19 Chapter 9-3.
9. Demolition Effects Simulators (DES) charges are explosives which use detonating cord, blasting caps, MDI, cardboard, and sand or chalk to simulate other explosives. Extreme care must be exercised when using DES. Use of the DES is described in TC 5-250. DES is an explosive, and all safety guidance contained in the pamphlet and FM 5-250 must be followed.
10. Minimum Safe Distance will be referenced per DA PAM 385-63.
11. A Ranger Instructor will supervise the students at all times.
12. POC is the undersigned or SFC Johnson at 544-6693.

  
Mark J. Wade  
MAJ, IN  
Executive Officer



**DEPARTMENT OF THE ARMY**  
HEADQUARTERS UNITED STATES ARMY MANEUVER CENTER OF EXCELLENCE  
35 RIDGWAY LOOP  
FORT BENNING, GEORGIA 31905-4500

REPLY TO  
ATTENTION OF

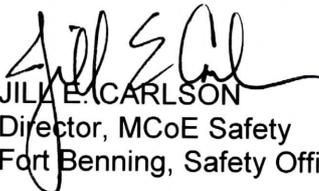
ATZB-SO (385)

31 March 2011

MEMORANDUM FOR Director, G-3, Maneuver Center of Excellence, Fort Benning, GA 31905.

SUBJECT: Demolition Enhanced System (DES) Training (RB1R16).

1. References: Demolition Enhanced System (DES) Training (RB1R16) Course Range Scenario, MCoE Fort Benning, GA Range and Terrain Regulation 350-19, AR 385-10, and CRMW.
2. Concur without comment.
3. Point of contact is Mr. Kestner J. Edens, MCoE/Fort Benning Safety Office, Comm. (706) 545-0742, Govt. Cell. (706) 604-6885, [jr.edens@us.army.mil](mailto:jr.edens@us.army.mil)

  
JIL E. CARLSON  
Director, MCoE Safety  
Fort Benning, Safety Office

**IP'S**

- IP-1 GA 203810
- IP-2 GA 203842
- IP-3 GA 181854
- IP-4 GA 168834
- IP-5 GA 176812
- IP-6 GA 173784
- IP-7 GA 168780

**NAI's**

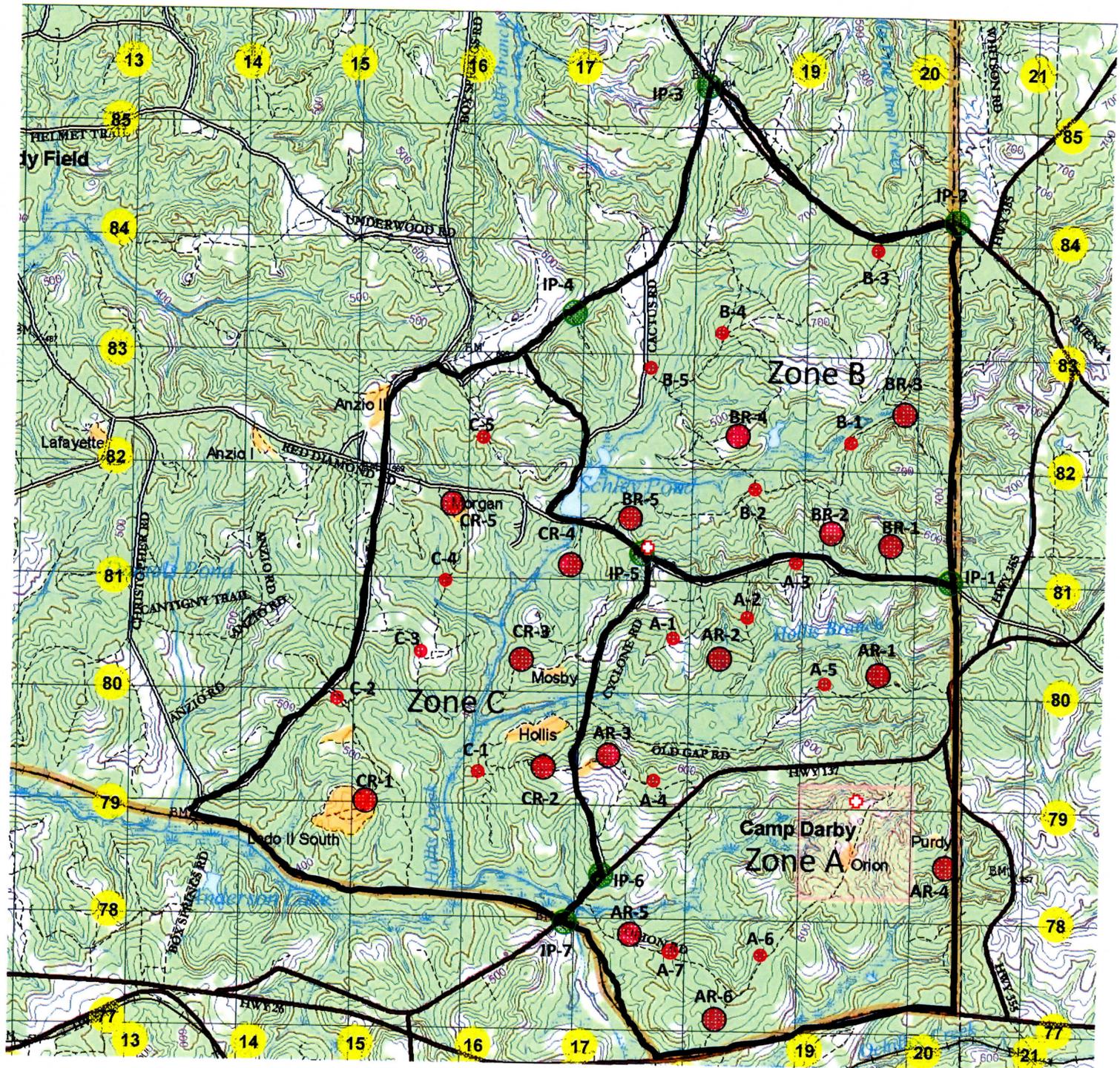
- A-1 GA 181807
- A-2 GA 185806
- A-3 GA 187811
- A-4 GA 179792
- A-5 GA 192800
- A-6 GA 185774
- A-7 GA 176778
- B-1 GA 194824
- B-2 GA 186818
- B-3 GA 197839
- B-4 GA 183833
- B-5 GA 176828
- C-1 GA 163793
- C-2 GA 148799
- C-3 GA 156804
- C-4 GA 157809
- C-5 GA 162823

**Hard Sites**

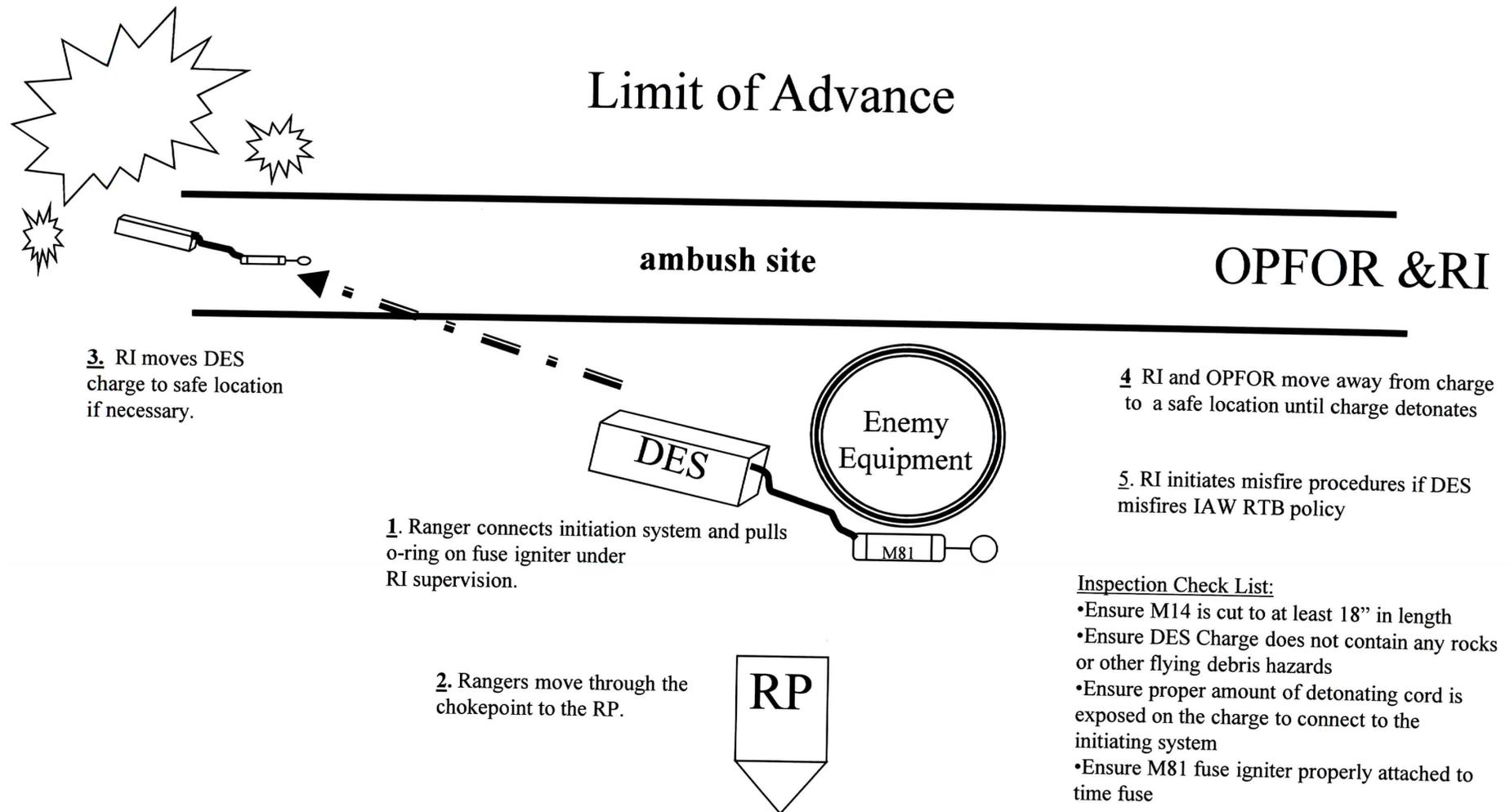
- AR-1 GA 195800
- AR-2 GA 184804
- AR-3 GA 174793
- AR-4 GA 203787
- AR-5 GA 174778
- AR-6 GA 183771
- BR-1 GA 197813
- BR-2 GA 193815
- BR-3 GA 198825
- BR-4 GA 184824
- BR-5 GA 174816
- CR-1 GA 151790
- CR-2 GA 167793
- CR-3 GA 165804
- CR-4 GA 169811
- CR-5 GA 158817

**LZ'S/ PZ'S**

- ORION**  
GA 194786  
LAT 32.19  
LON 84.40
- PURDY**  
GA 202787  
LAT 32.19  
LON 84.39
- CYCLONE**  
GA 171794  
LAT 32.19  
LON 84.41
- HOLLIS**  
GA 167796  
LAT 32.19  
LON 84.41
- LEDO S**  
GA 149789  
LAT 32.19  
LON 84.42
- LEDO N**  
GA 149796  
LAT 32.19  
LON 84.42
- MOSBY**  
GA 168802  
LAT 32.20  
LON 84.41
- MORGAN**  
GA 158816  
LAT 32.21  
LON 84.42
- CACTUS**  
GA 175835  
LAT 32.22  
LON 84.41
- MEDIC'S**
- MID-POINT**  
GA 176812  
LAT 32.20  
LON 84.41
- DAS**  
GA 195791



# Ambush objective site sketch of emplaced DES charge



## ADMINISTRATIVE NOTES

### 1. **Issue.**

- a. The RI Walker will initially receive all components of the DES system. Time fuse will not be precut to less than 1 minute.
- b. The RI Walker will inspect the charge, time fuse/blasting cap and M81 fuse igniter during TLPs prior to the students moving out on patrol.
- c. **(5<sup>th</sup> & 6<sup>th</sup> Bn only)** RI issues demo (charge & firing/ignition system) to student. Students will maintain possession of the charge and firing/ignition systems (2 components) and they will be segregated from each other.
- d. **(4<sup>th</sup> Bn only)** RI issues demo (charge & firing/ignition system) to student. RI maintains control of the M81 fuse igniter until Ranger Students are ready to attach firing/ignition system to the DES charge during "Actions on the Objective". Students will maintain possession of the charge and firing/ignition systems (minus M81 fuse igniter) and they will be segregated from each other.
- e. The RI will supervise the attachment of the DES charge and firing/ignition systems to the DES on the Objective.

### 2. **Construction.** Note: Charges are constructed at the discretion of the Battalion and under close RI supervision.

- a. Ranger Students will construct the DES charge and ignition system to standard under the supervision of the instructors. The RI will inspect each charge and ignition system for quality assurance.
- b. The RI will enforce safety procedures and both RI and Students will wear the proper PPE while working with all components of the DES.
- c. RIs will control and collect excess demolition material for turn-in using normal ammunition procedures.
- d. If a DES charge has been constructed AND it was not used in a tactical mission during training, the DES will be marked with the date and who constructed the charge.
- e. Once the firing system is constructed, the charge and firing/ignition system will be segregated by Ranger Student (4<sup>th</sup> RTBn RIs maintain M81).

### 3. **Attaching Firing System to DES Charge (Actions on the Objective).**

- a. The Student Leader calls for his Demo Team and they move to his location.
- b. The RI determines that a safe location is used to detonate the DES Charge.
- c. Ballistic eye protection is worn by the RI supervising and the Students attaching the firing/ignition system to the DES charge.
- d. Student Leadership goes through their withdrawal plan (RI will count Rangers withdrawing off the OBJ to ensure there are no students still on the LOA).
- e. Under the supervision of the RI, the Students will tie a square knot to attach the DES charge and the firing/ignition system and place the completed charge in the designated location. (RI uses white light to observe)
- f. RI will inspect time fuse to ensure that no less than 1 minute burn time is on the time fuse.
- g. The Demo Team will move back to their positions on the line.
- h. The Student removes the Safety Wire with Lanyard and pulls the M81 fuse igniter one at a time.
- i. Once both pieces of time fuse are burning the student places them on the ground and withdraws off the OBJ.

#### **4. Misfire Procedures.**

- a. Yell "Misfire" to let everyone in the vicinity of the charge know that you have a misfire.
- b. Wait 30 minutes before investigating the misfire. Maintain a safe distance of 50 meters.
- c. Only RIs will handle misfires.
- d. RIs maintain control of the site.
- e. After 30 minutes RI will approach the charge to identify the problem.
- f. RI can destroy the charge with another firing/ignition system or recover the charge by separating the firing/ignition system from the charge.
- g. 6<sup>th</sup> RTBn will use EOD to handle all misfires

#### **5. Accountability.**

- a. DES charges will be treated as a sensitive item and be subject to 100% daily inventory during times of: RI Change Over (RICO), after actions on the objective and student change of leadership positions.
- b. No excess ordinance (time fuse, blasting caps, det cord) will be kept within the student patrols.
- c. Unused (not misfired) DESs will be accounted for and turned in.
- d. If unused DES charges remain with the patrol, no new charges will be issued until they are expended. DES accountability will occur IAW established Battalion ammunition procedures.

# DES Procedures



E

# Charge Construction



DES Container with sand  
or chalk

3 to 4 feet of det cord  
with Uli knot 8 wraps minimum

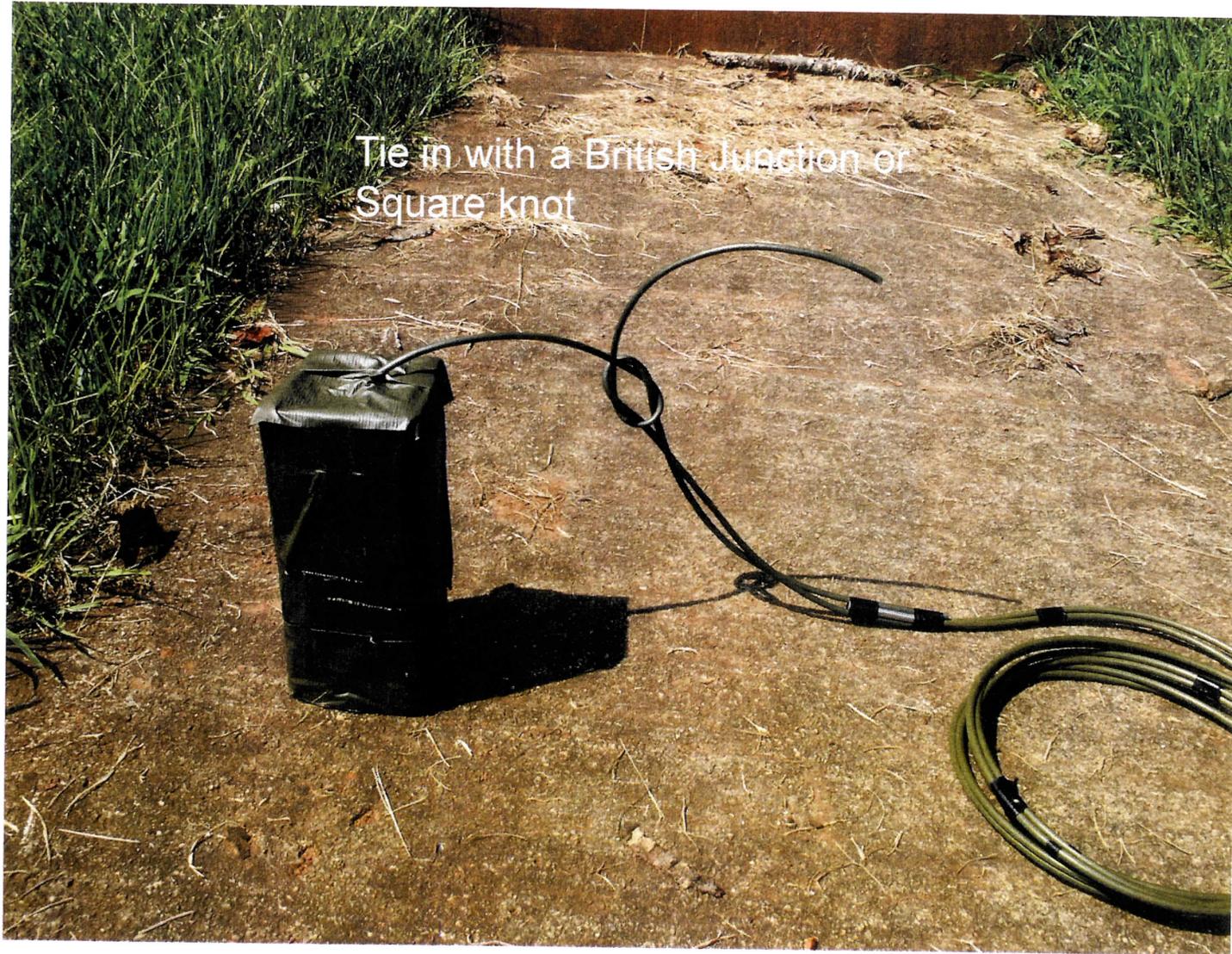
# Charge Construction



# Firing System Construction



# Tie-In Procedures



# Carrying Procedures

- 1. Ranger Instructor carry the firing system
- 2. Students carry DES charge
- 3. Students carry demolition kit

Note: Firing system is placed in the rucksack  
In safe location to avoid pressure from equipment.

## Placement of Charge

- 1. The Ranger Instructor identify the location of the DES and briefs OPFOR.
- 2. Everyone will be at least 50 meters from the charge.
- 3. The charge will be marked with a red chemlite.
- 4. RIs supervise emplacement of DES.
- 5. Students detonate DES under direct supervision from the RI.

# Detonating the Charge

- Ranger student pulls one M-81 at a time.
- Never pull both M-81s at the same time
- Once you visibly see the time fuse burning move to a safe location.

## DES Misfire Procedures

1. Yell “Misfire” let everyone in the vicinity of the charge that you have a misfire.
2. Wait 30 minutes before investigating the misfire. Maintain a safe distance of 50 meters.
3. Only Ranger Instructors handle misfires.
4. Maintain control of the site.
5. After 30 minutes RI will approach the charge to identify the problem.
6. RI can destroy the charge with another firing system or recover the charge by separating the firing system from the charge.

## COMPOSITE RISK MANAGEMENT WORKSHEET

For use of this form, see FM5-19; the proponent agency is TRADOC

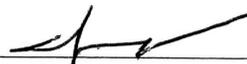
1. MSN/TASK  <b>PATROLLING</b>	2a. DTG BEGIN  240600 AUG 2010	2b. DTG END  UNTIL RESCINDED	3. DATE PREPARED (YYYYMMDD)  2010/08/24
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4. PREPARED BY:		
a. LAST NAME  <b>GLEBE</b>	b. RANK  GS-11	c. POSITION  BATTALION SAFETY SPECIALIST

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Patrolling	Broken Bones or Serious Injury from Falls into Erosion Ditches	S-M / P-O Moderate	1. Students will be briefed on hazards in the training area prior to training. 2. During hours of limited visibility, the point man and RI will wear NVG's to prevent individuals from moving into hazardous terrain. 3. All students who have NVG's will wear them during night movement. 4. RI's are trained Ranger First Responders. 5. Medics and FLAs are positioned in the training area for quick response. 6. Students will receive safety brief about terrain. 7. Students will wear knee pads and elbow pads. 8. Medics will conduct route recon of the trails and roads in the training area to facilitate quick response. 9. Medics will be equipped with GPS for situational awareness.	S-M / P-S Low	4th RTBn SOP 350-1; BSOP; USAIC Reg 40-14, Heat Prevention; FM 21-18 Foot Marches; MCoE Reg 350-19, Range and Terrain; SH 21-76 Ranger Hand Book; FM 3-25.26, Map Reading & Land Navigation; Direct Supervision	Battalion / Company Pls, Ranger Instructors	

Additional space for entries in Items 5 through 11 is provided on page 2.

13. OVERALL RISK LEVEL AFTER CONTROLS ARE IMPLEMENTED (Check One)			
<input type="checkbox"/> LOW	<input checked="" type="checkbox"/> MODERATE	<input type="checkbox"/> HIGH	<input type="checkbox"/> EXTREMELY HIGH
 MARK J. WADE MAJ, IN Operations Officer			

14. RISK DECISION AUTHORITY			
a. LAST NAME  MILLER	b. RANK  LTC	c. DUTY POSITION  COMMANDER, 4 <sup>TH</sup> RTBn	d. SIGNATURE  

ITEMS 5 THROUGH 12 CONTINUED:

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Patrolling	Lost Students	S-Cr / P-S Moderate	<ol style="list-style-type: none"> <li>1. Students will be briefed during each RI's in walkers brief on actions to take during breaks in contact as outlined in the 4<sup>th</sup> RTBn Walkers Guide.</li> <li>2. A lost student will stay in place and yell out his unit designation.</li> <li>3. If no contact is made, the student will remove his blank adapter and fire single rounds to designate his location.</li> <li>4. The lost student will move to a main road and wait in place while the cadre and patrol move to find him.</li> <li>5. Bn PI and Company rovers will use the ATV/Ranger vehicle to rove for lost students and/or evacuate students out of the training area. When operating ATV/Ranger vehicles all required Personal Protective Equipment (PPE) will be worn.</li> </ol>	S-Cr / P-U Low	4th RTBn SOP 350-1; BSOP; USAIC Reg 40-14, Heat Prevention; FM 21-18 Foot Marches; MCoE Reg 350-19, Range and Terrain; SH 21-76 Ranger Hand Book; FM 3-25.26, Map Reading & Land Navigation; Direct Supervision	Battalion / Company PIs, Ranger Instructors	
	Danger from Hunters/ Unauthorized Personnel in the Training Area	S-C / P-S High	<ol style="list-style-type: none"> <li>1. Land is closed to hunters during training.</li> <li>2. Hunters will be immediately reported to the PI and escorted out of the training area.</li> <li>3. Range Control will be notified of all unauthorized personnel.</li> <li>4. PI will coordinate with Range Control the day prior to training to ensure area is closed to hunters.</li> </ol>	S-C / P-U Moderate			

ITEMS 5 THROUGH 12 CONTINUED:

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Patrolling	Injuries by Blast from Blank Fire, Simulators, and Pyrotechnics/ DES	S-M / P-O Moderate	<ol style="list-style-type: none"> <li>Students will receive safety brief and observe a 5 meter blank safety rule.</li> <li>Students will receive training on the use of pyrotechnic devices.</li> <li>Instructors will be the only personnel to handle arty and grenade simulators and M-21 devices.</li> <li>Under no circumstances will CL V be modified.</li> <li>DES effects see DES SOP and risk management worksheet.</li> </ol>	S-M / P-S Low	4th RTBn SOP 350-1; BSOP; USAIC Reg 40-14, Heat Prevention; FM 21-18 Foot Marches; MCoE Reg 350-19, Range and Terrain; SH 21-76 Ranger Hand Book; FM 3-25.26, Map Reading & Land Navigation; Direct Supervision	Battalion / Company Pls, Ranger Instructors	
	Foot Injuries	S-Cr / P-S) Moderate	<ol style="list-style-type: none"> <li>Foot powder will be available at the company level.</li> <li>Students will be instructed to change socks at the completion of the patrol.</li> <li>Medics will check students' feet as they return from the mission.</li> </ol>	S-Cr / P-U Low			
	ATV Accidents	S-Cr / P-S Moderate	<ol style="list-style-type: none"> <li>Cadre will receive a safety briefing on the use of ATVs.</li> <li>All required Personal Protective Equipment (PPE) will be worn.</li> <li>All operators will be licensed and strictly follow the 4th RTBn ATV/Ranger SOP.</li> <li>Only certified RIs will operate ATVs.</li> </ol>	S-Cr / P-U Low			
	Injuries While Conducting IMT	S-N / P-O Low	<ol style="list-style-type: none"> <li>Students will receive safety brief about terrain.</li> <li>Students will wear knee pads and elbow pads.</li> </ol>	S-N / P-S Low			

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Patrolling	Environmental Considerations (Hot / Cold Weather Injuries, Allergic Reactions, Lightning Strikes, Snake Bites)	S-Cr / P-O High	<ol style="list-style-type: none"> <li>1. Medics conduct initial records check for students with allergies and prior hot / cold weather injuries.</li> <li>2. Students will not be allowed to attend training during the season (summer/winter) they received their injury.</li> <li>3. During a safety briefing, inform the students of the various types of wildlife that are hazardous and warn them not to handle or harass the wildlife during training.</li> <li>4. Students with allergies are identified, marked, and monitored.</li> <li>5. RIs are trained "Ranger First Responders".</li> <li>6. Medics &amp; FLAs on site.</li> <li>7. A fully stocked / manned aid station is located at Camp Darby.</li> <li>8. Refer to BDE CRMW (Environmental Considerations) for additional information.</li> </ol>	S-Cr / P-S Moderate	4th RTBn SOP 350-1; BSOP; USAIC Reg 40-14, Heat Prevention; FM 21-18 Foot Marches; MCoE Reg 350-19, Range and Terrain; SH 21-76 Ranger Hand Book; FM 3-25.26, Map Reading & Land Navigation; Direct Supervision	Battalion / Company Pls, Ranger Instructors	

## COMPOSITE RISK MANAGEMENT WORKSHEET

For use of this form, see FM5-19; the proponent agency is TRADOC

1. MSN/TASK <b>HELICOPTER MOVEMENT</b>		2a. DTG BEGIN <b>100800 AUG 2010</b>		2b. DTG END <b>UNTIL RESCINDED</b>		3. DATE PREPARED (YYMMDD) <b>20100810</b>	
4. PREPARED BY:							
a. LAST NAME <b>GLEBE</b>		b. RANK <b>GS-11</b>			c. POSITION <b>BATTALION SAFETY SPECIALIST</b>		
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Helicopter Movement	Contact with Rotor Blade	S-C / P-S High	1. Aircraft safety briefing issued to students to include: rotor blade awareness and correct approach routes. 2. Instructors always accompany students to ensure they remain a safe distance from the A/C and approach from the correct angle. 3. FLA/Medics at PZ/LZ 4. Pathfinder controls PZ/LZ.	S-C / P-U Moderate	BSOP; 4th RTBn SOP 350-1; FM 3-21.38, Pathfinder Operations; FM 90-4, Air Assault Operations; Direct Supervision	Ranger Instructors, S-3 Air NCO, Pathfinder	
	Helicopter Crash	S-C / P-S High	1. Soldiers receive safety briefing from Crew Chief / RI and are given instructions on actions during in-flight emergencies / crashes. 2. RI ensures Soldiers are wearing helmets and seatbelts at all times in the A/C.	S-C / P-U Moderate			

Additional space for entries in Items 5 through 11 is provided on page 2.

13. OVERALL RISK LEVEL AFTER CONTROLS ARE IMPLEMENTED (Check One)

LOW    
  MODERATE    
  HIGH    
  EXTREMELY HIGH

  
 MARK J. WADE  
 MAJ, IN  
 Operations Officer

14. RISK DECISION AUTHORITY

a. LAST NAME <b>MILLER</b>	b. RANK <b>LTC</b>	c. DUTY POSITION <b>COMMANDER, 4<sup>TH</sup> RTBn</b>	d. SIGNATURE 
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ITEMS 5 THROUGH 12 CONTINUED:

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Helicopter Movement	Soldiers Falling from Aircraft	S-C / P-S High	Crew chief/ RI ensure Soldiers attach seatbelts upon entering the A/C and remove them only after A/C has landed.	S-C /P-U Moderate	BSOP; 4th RTBn SOP 350-1; FM 3-21.38, Pathfinder Operations; FM 90-4, Air Assault Operations; Direct Supervision	Ranger Instructors, S-3 Air NCO, Pathfinder,	
	Soldiers Tripping / Falling on Obstacles on HLZ	S-M /P-S Low	1. Safety briefing issued to include hazards on the HLZ. 2. All passengers wear Kevlar helmets. 3. HLZ selection and proper clearing techniques utilized.	S-M /P-U Low			
	Injury From Flying Debris on PZ/LZ	S-M /P-S Low	1. Safety briefing given on hazards of flying debris. 2. Cadre/Soldiers will wear eye protection and helmet. 3. PZ/LZ party checks PZ/LZ for debris prior to arrival.	S-M /P-U Low			
	Environmental Considerations (Hot / Cold Weather Injuries, Allergic Reactions, Lightning Strikes, Snake Bites)	S-Cr / P-O High	1. Medics conduct initial records check for students with allergies and prior hot / cold weather injuries. 2. Students will not be allowed to attend training during the season (summer/winter) they received their injury. 3. During a safety briefing, inform the students of the various types of wildlife that are hazardous and warn them not to handle or harass the wildlife during training. 4. Students with allergies are identified, marked, and monitored. 5. RIs are trained "Ranger First Responders". 6. Medics & FLAs on site. 7. Refer to BDE CRMW (Environmental Considerations) for additional information.	S-Cr / P-S Moderate			

**ADMINISTRATIVE NOTES:**

1. Personnel will approach and depart helicopters in the crouched position for extra clearance below the main rotor blade.
2. Personnel will move to and from helicopter on the down slope side to avoid the main rotor blade.
3. RIs will be the last man on the A/C and will visually inspect each student to ensure proper wearing of the seatbelt.
4. Weapons will be carried downward when no blank adapter is used and upward when blank adapter is used. The magazine well is forward with magazine inserted, bolt closed, and weapon on safe. There will not be a round chambered.
5. All pyrotechnics will be secured in the rucksack.
6. Bend short radio antennas or remove long whip antennas.
7. Seatbelts will be fastened upon entering the aircraft and will not be unfastened until A/C has landed on the LZ.
8. Students will exit the aircraft and move approximately 5 feet and get in the prone position until the A/C has departed.
9. In the case of an emergency landing, everyone will lean forward with their head down. No one will exit the A/C until the main rotor has stopped. The only exception is if there is a fire.
10. RIs will conduct an A/C safety briefing and conduct rehearsals on the following
  - a. On loading
  - b. Off loading
  - c. A/C crash procedures

**UH-60 and UH-1 Aircraft:**

1. Soldiers will approach from the side, 90 degree angle off the nose, forward of the rear cargo doors and in visual sight of the pilots.
2. Soldiers will only approach on the command from the RI.

**CH-47 Aircraft:**

1. Soldiers will approach the A/C from the rear in visual sight of the crew chief.
2. Soldiers will only approach on the command from the RI.

## COMPOSITE RISK MANAGEMENT WORKSHEET

For use of this form, see FM5-19; the proponent agency is TRADOC

1. MSN/TASK <b>DEMOLITION EFFECTS SIMULATOR (DES)</b>	2a. DTG BEGIN <b>010800 JUN 2010</b>	2b. DTG END <b>UNTIL RESCINDED</b>	3. DATE PREPARED (YYYYMMDD) <b>2010/05/25</b>
--	---	---------------------------------------	--

4. PREPARED BY:

a. LAST NAME <b>WIEHE</b>	b. RANK <b>GS-12</b>	c. POSITION <b>BDE SAFETY MANAGER</b>
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5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Prepare, Carry and Detonate DES	1. Handling DES	High	1. Instructors certified IAW FBGA regs (Safety Reg 385-9) for use of explosive, demolition explosive simulators and pyrotechnics for RTB DES training. 2. Inspect DES for serviceability IAW FM 5-250. 3. Students will carry two components, the charge and the firing/ignition system (5 <sup>th</sup> & 6 <sup>th</sup> Bn). 4 <sup>th</sup> Bn RI will carry M81 fuse igniter. All components will be segregated and no two components will be on the same person.	Moderate	1. FM 5-250, Demolitions 2. RICP Certification 3. RTB BSOP 4. RTBn 350-1 5. Safety Reg 385-9	Direct Supervision	YES

Additional space for entries in Items 5 through 11 is provided on page 2.

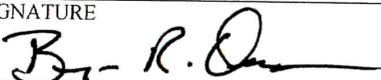
13. OVERALL RISK LEVEL AFTER CONTROLS ARE IMPLEMENTED (Check One)

LOW    
  MODERATE    
  HIGH    
  EXTREMELY HIGH

  
**JEREMY B. MILLER**  
 LTC, IN  
 Commanding

  
**JOHN W. KING**  
 COL, IN  
 Commanding

14. RISK DECISION AUTHORITY

a. LAST NAME <b>OWENS</b>	b. RANK <b>COL (P)</b>	c. DUTY POSITION <b>COMMANDANT, USAIS</b>	d. SIGNATURE 
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ITEMS 5 THROUGH 12 CONTINUED:

5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS	9. RESIDUAL RISK LEVEL	10. HOW TO IMPLEMENT	11. HOW TO SUPERVISE (WHO)	12. WAS CONTROL EFFECTIVE?
Prepare, Carry and Detonate DES	2. Injury From Blast or Flying Debris	High	1. RIs brief OPFOR on location and timing of DES detonation. 2. RIs train students on the construction and use of DES. During construction and emplacement of the DES, all PPE will be worn (ballistic eyewear and helmet). 3. RIs supervise emplacement of DES and ensure that the location is safe. 4. RIs, students and OPFOR will be at least 50 meters from blast.	Moderate	1. FM 5-250, Demolitions 2. RICP Certification 3. RTBn RI Guide Book	Direct Supervision	YES
	3. Injury From Premature Detonation	High	1. 4 <sup>th</sup> Bn RI carries M81 and issues to student on the objective just prior to detonation. 2. RIs supervise final construction of DES charge and ensure that time fuse is not less than 1 minute in length. 3. Under no circumstances will excess time fuse be burned in the patrol base. Excess time fuse (after being cut to length) will be accounted for, consolidated and turned back in to the RI for proper disposal IAW RTBn Ammo SOPs.	Moderate	1. FM 5-250, Demolitions 2. RICP Certification 3. RTBn RI Guide Book 4. RTBn Ammo SOP	Direct Supervision	
	4. Failure to Properly Detonate DES.	High	1. Only RIs handle misfires and ensure all personnel stay at least 50 meters away. 2. RIs will ensure students dual prime DES and inspect charge prior to detonation.	Moderate	1. FM 5-250, Demolitions 2. RICP Certification 3. RTBn RI Guide Book	Direct Supervision	



# RECORD OF ENVIRONMENTAL CONSIDERATION (REC)



**EMD Number:** 124407

**Project#:** NONE

**Project Title:** Ranger STX 071R0022 and FTX 071R0023

**Description of proposed action:**

Students and Cadre will be conducting a situation training exercise (STX) and a field training exercise (FTX). During this phase, students will be training on squad and platoon tactics, techniques, and procedures (TTPs). All movement through the wood line will be dismounted. All vehicle traffic will be conducted on the roads in this area unless a medical emergency occurs. Students and Cadre will be conducting React to Contact, Reconnaissance Operations, Ambush Operations, and Air Assault Operations using 5.56mm blank ammunition, 7.62mm blank ammunition, DET cord and colored smoke grenades. The STX and FTX will approximately last 12 days. The purpose of this 144-R is to ensure that 4th RTBn adheres to the environmental considerations of Fort Benning.

**Project Location:**

F1-10, G1-8, H1-5, Purdy, Morgan, Mosby, Cyclone, Ledo 1 and 2, Hollis, Orion, Anzio 2

**Amount, Description, Location of Disturbance/Digging:**

Minimal/Hasty Fighting Positions

**Number/Types of Vehicles:**

10-ATV, 10-M923, 3-M998, 12-GSA, 2-UH-60, 3-M977

**Number of Personnel:**

300

**Type of Ammunition:**

5.56&7.62mm blank, DET cord, Smoke Grenade, L594 Blank

**Number/Types of Trees:**

NONE

**Size of Project Area:** N/A

**Duration of Action:** Start: 10/1/2010 Stop: 9/30/2011

**Proponent:**

706-544-6693

**Organization/Unit:** 4th Ranger Training Battalion

\*\*\*\*\*  
**DECISION:** Concur with conditions

**This Action is adequately covered in the Existing EA titled: 'Ongoing Mission and siting Activities, USAIC, FT.Benning, GA.'**

**(NA): Training involving LIVE FIRE and tracked vehicles has NO CATEX -- "Ongoing Mission and Siting Activities, USAIC, Ft. Benning, GA."**

\*\*\*\*\*  
**REC APPROVED THROUGH 30 SEPTEMBER, 2011**

**Hazardous Materials/Waste**

**Conditions:**

Ted Williams (706 545 7579), 9/9/2010

Appropriate precautions must be taken to prevent hazardous material spills. Have adequate quantities of spill response supplies on hand. If a spill occurs use notification procedures as outlined in the Fort Benning Hazardous Waste Management Plan. Contain and clean up spill according to guidance provided by the Environmental Protection Management Branch. Any waste generated must undergo a waste stream analysis to determine appropriate management requirements. If any hazardous waste is generated it must be managed in accordance with Federal, State, Army and Fort Benning regulations.

Defective, misfired, or otherwise unserviceable munitions must be managed IAW/USAIC Reg. 210-4 -5-10, Para 9-2 (Proper management of Misfired munitions). All excess, munitions must be returned to the Ammunition Supply Point after the field exercise is completed. A dud shall not be removed from the range; it will be marked, called into range control and will be properly disposed of by EOD personnel IAW/USAIC Reg. 210-4 -5-8, May 05.

Rubbish, empty containers and other waste (including used smoke/C2 canisters) should be removed from the training area after the training is completed. Contact EPMB for detailed information on the proper disposal of waste products resulting from the exercise. Contact POC below for any questions or additional guidance.

EMD Number: 124407

IJO#

Project Title: Ranger STX 071R0022 and FTX 071R0023

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Cultural Resources - Archeological

Conditions:

Edward Howard (706 545 1898), 9/8/2010

See attached JPEG maps for reference (EMD 124407 Ranger STX ....jpg). No ground disturbing activities (digging, off-road vehicle traffic, etc.) permitted in the archaeological sites and cemeteries (indicated in red in the maps). If historic or Native American artifacts (arrowheads, etc) are encountered, their removal constitutes theft as well as violation of other federal law pertaining to Native American artifacts. This could result in criminal prosecution. Contact CRM with any questions or concerns. Resubmittal is required if submitted project is modified in any way.

Natural Resources - RCW

Conditions:

( ), 9/1/2010

See attached conditions. Note locations of red-cockaded woodpeckers and gopher tortoises on attached maps. Training restrictions apply. Unit commanders must make sure that all troops know the locations of restricted areas and understand these training restrictions. This is imperative since night training may occur. Boundaries are often hard to see at night, but this is no excuse for violations to occur. Two hour time restriction is for 2 hours once every 24 hour period. Note where digging may not occur. All trenches, fighting positions, etc must be filled in prior to leaving an area. There must be no cutting down or intentional destruction of any pine trees throughout the requested area(s).

CWA - Training

Conditions:

Jesse Taylor (706 545 0276), 9/1/2010

Environmental Review: Caution within training areas and motor pools should be taken to protect all nearby waterways (including perennial, intermittent streams and wetlands); as well as ground surfaces and any other sensitive areas in the vicinity of the training areas. Potential spills/releases from this activity that may occur before and/or during the FTX include: 1. Discharge and/or improperly disposal of oil or hazardous substances into or upon land, water, or into ground water areas from storage, handling and/or transportation of hazardous materials/waste; 2. Vehicle/equipment/generators leaks; 3. Fuel loading/unloading/refueling operations; 4. Field mess facilities/equipment/operations, and/or 5. Ammunitions /explosives (as applicable, before and/or during the FTX).

General SPCC Requirements: Ensure all hazardous materials are properly storage to prevent spill/discharges, to meet safety requirements for storage, and that containers are not exposed to the weather. Have adequate spill response supplies available during exercise for any spills that may likely occur. Use drip pans under vehicles and provide secondary containment for any fueling activities and hazardous material/waste storage. Locate all refueling operations and storage of hazardous materials/waste away from waterways and sensitive areas. See attached section on prevention procedures and CHECKlist (Figure 6.9.1) to be used during training exercise to comply with SPCC plan requirements. Ensure all wastewater from field mess equipment/operations particularly those involving oil/grease are collected and dispose properly. Do not discharge any wastewater into storm drains or dispose of oil/grease waste directly into land.

General ISCP Requirements: In the event of a spill/discharge -- notify Range Control by radio or call 544-6291, and they will notify E-911 for Fire Department/HAZMAT Team assistance and/or notification of the EMD office (Spill Beeper 706-317-6584). As appropriate, and if personnel are trained -- REACT to minimize spill damages. Submit a spill report to the EPMB Spill Program Manager (use Spill Response Report attached). All spills reaching navigable water must be reported immediately. The unit is responsible for the final cleanup of any spill during this exercise. Coordination with this office is required for clearance of the site.

For environmental considerations to protect water quality; all food service facilities and waste collection areas (including Porta-Pottys) must be located away from any water wells, state waters, and waterways (including drainage ditches) in the vicinity of the training area. Recommended distance of approximately 100' (30 meters) from any water source. For this particular training activity located at the H1-5 Training Area; there is unnamed tributaries and/or direct drainage into Ochillee Creek. No wastewaters should be discharged into waterways. No food, grease, garbage, human waste is to be left on site. All fats/oil/grease and/or solid waste must be collected and dispose off properly. Failure to follow these guidance could cause the site to be close for future use. Recommend use and implementation of FM 4-25.12 (FM 21-10-1) Unit Field Sanitation Team preventive medicine measures when establishing field food service facilities and other waste facilities. To include but not limited to Chapter 2, Section IV: Waste Disposal; Appendix A Lesson 6: Waste Disposal in the Field; Appendix B - Figures B-25, B-26, B-27, B-28. Unit to submit POC in charge of monitoring these activities. For additional specific guidance on field sanitation requirements - contact Fort Benning Preventive Medicine POC: Lt Sanchez-Perez at 706 545 1446 or SGT Montoya at 706 545 1445.

**EMD Number:** 124407

**IJO#**

**Project Title:** Ranger STX 071R0022 and FTX 071R0023

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**Noise**

**Conditions:**

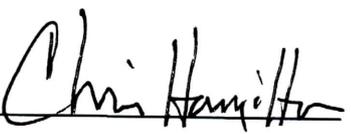
**Ellis Leeder ( 706 545 7576), 9/1/2010**

This is normal training that must be conducted annually. If there are any complaints received, the Environmental Management Division will investigate by determining if the noise was detected by noise detection monitors, and then recommending noise mitigation actions to the appropriate personnel. Please follow the Garrison guidelines to noise management and hours of firing operations. In accordance with the Army's policy on environmental noise management, all efforts shall be made to minimize noise annoyances to the highest extent practicable without interfering with the proposed mission. If any assistance is needed please feel free to contact Ellis Leeder at 706.545.7576 or email [ellis.leeder@us.army.mil](mailto:ellis.leeder@us.army.mil)

Signature 

John E Brown  
NEPA Program Manager

Date 11 Sep 10

Signature 

Christopher E. Hamilton, PhD  
EPMB Chief

Date 11 Sep 10

## RECORD OF ENVIRONMENTAL CONSIDERATION (FB FORM 144R) CONTINUED....

RECORD NUMBER: 734705

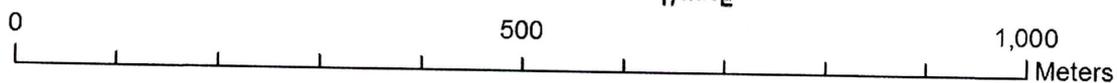
1. Conservation Branch (CB) personnel may inspect for environmental violations. During April - July, CB will require access to the red-cockaded woodpecker (RCW) clusters to check for breeding activity. If any aspect of the exercise changes, a new 144R must be submitted. Unit should not conduct any type of activity that will result in the death or injury of pine trees that are 10 inches diameter or greater, this includes cutting, demolition, etc. Failure to adhere to these conditions may result in disapproval of future 144Rs.
2. Backfill all fighting positions before leaving the training area.
3. There are gopher tortoises in the area. Some burrows have been marked by a white PVC pipe or pink engineer's flags. Digging and all vehicles must be kept at least 50 feet away from gopher tortoise burrows, whether burrows are marked or unmarked. See attached sheet for more information regarding the gopher tortoise. There are sensitive areas that are marked with sensitive area signs. There is no digging or vehicle movement allowed in these areas.
4. There is 1 RCW cluster located in training compartment F02 at centerpoint GL 16020-84390. There is 1 RCW cluster located in training compartment F05 at centerpoint GL 16386-86849. There is 1 RCW cluster located in training compartment F06 at centerpoint GL 18124-82995. There are 3 RCW clusters located in training compartment F07 at centerpoint GLs 19538-83685, 20112-83387 and 19309-83267. There are 2 RCW clusters located in training compartment F10 at centerpoint GLs 19910-81890 and 19940-82555. There is 1 RCW cluster located in training compartment G02 at centerpoint GL 16735-79030. There are 4 RCW clusters located in training compartment G06 at centerpoint GLs 18236-80627, 20116-80909, 17920-80038, and 19477-80991. There is 1 RCW cluster located in training compartment G07 at centerpoint GL 19502-80143. There is 1 RCW cluster located in training compartment G08 at centerpoint GL 18067-79235. There is 1 Red-cockaded woodpecker (RCW) cluster located in training compartment H05 at centerpoint GLs 18062-78774. Two white bands mark cavity (nest) trees. The cluster boundaries extend approximately 200 feet from the cavity trees and are marked by signs indicating the area is an RCW cluster.
  - a. **Activities in cluster boundaries are limited to 2 hours with the following activities allowed:** Hasty defense-light infantry-hand digging, foot traffic, wheeled-vehicle traffic (must stay 50 feet from marked trees), vehicle maintenance, 7.62-mm and lower blank firing, artillery/hand grenade simulators, Hoffman type devices, smoke/haze operations-generators or pots (smoke can drift into, but source must be outside boundary), star cluster/parachute flare, cutting of hardwoods for camouflage (do not cut pines).
  - b. **The following activities are not allowed in the cluster boundary:** No other digging, establishment of command post, assembly area operations, established CS/CSS sites, live fire, noise generators, incendiary devices (including trip flares), CS/Riot gas, HC smoke, tank ditches, deliberate individual fighting positions, crew served fighting positions, vehicle fighting positions, force reduction positions, vehicle survivability postings.
  - c. Within ½ mile of a cluster, there is no mechanical digging within 20 feet of a mature pine tree (8 inches diameter at breast height or greater).
5. Report all wildfires to Range Control ASAP.

MICHAEL BARRON  
Wildlife Biologist, CB  
544-7080/7319

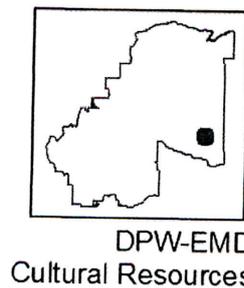
TRAINING ACTIVITY WITHIN 200' BUFFER ZONE	
Maneuver and Bivouac:	
Hasty defense, Light Infantry, Hand digging only, 2 hrs max	yes
Foot Transit	yes
Wheel/Track Vehicle Transit	yes (1)
Cutting Hardwood Camouflage	yes
Vehicle Maintenance, 2 hrs max	yes
Hasty defense, Mechanized Infantry/Armor	no
Deliberate Defense, Light Infantry	no
Deliberate Defense, Mechanized Infantry/Armor	no
Established Command Post, Light Infantry	no
Assembly Area Operations, Light Infantry, Mech Infantry/Armor	no
Established CS/CSS Sites	no
Weapons Firing:	
7.62mm and Below Blank Firing	yes
.50 Cal Blank Firing	yes
Artillery Firing Position	no
MLRS Firing Position	no
All Others	no
Noise:	
Artillery/Hand Grenade Simulators	yes
Hoffman Type Devices	yes
Generators	no
Pyrotechnics/Smoke:	
Smoke, Haze Operations, Generators or Pots	yes (2)
Smoke Grenades	yes
Star Cluster/Parachute Flares	yes
Incendiary Device to Include Trip Flares	no
CS/Riot Gas	no
HC smoke of Any Type	no
Digging:	
Hasty Individual Fighting Positions, Hand Digging Only	yes
Tank Ditches	no
Deliberate Individual Fighting Positions	no
Crew-served Weapons Fighting Positions	no
Vehicle Fighting Positions	no
other survivability/Force Reduction positions	no
Vehicle Survivability Postings	no

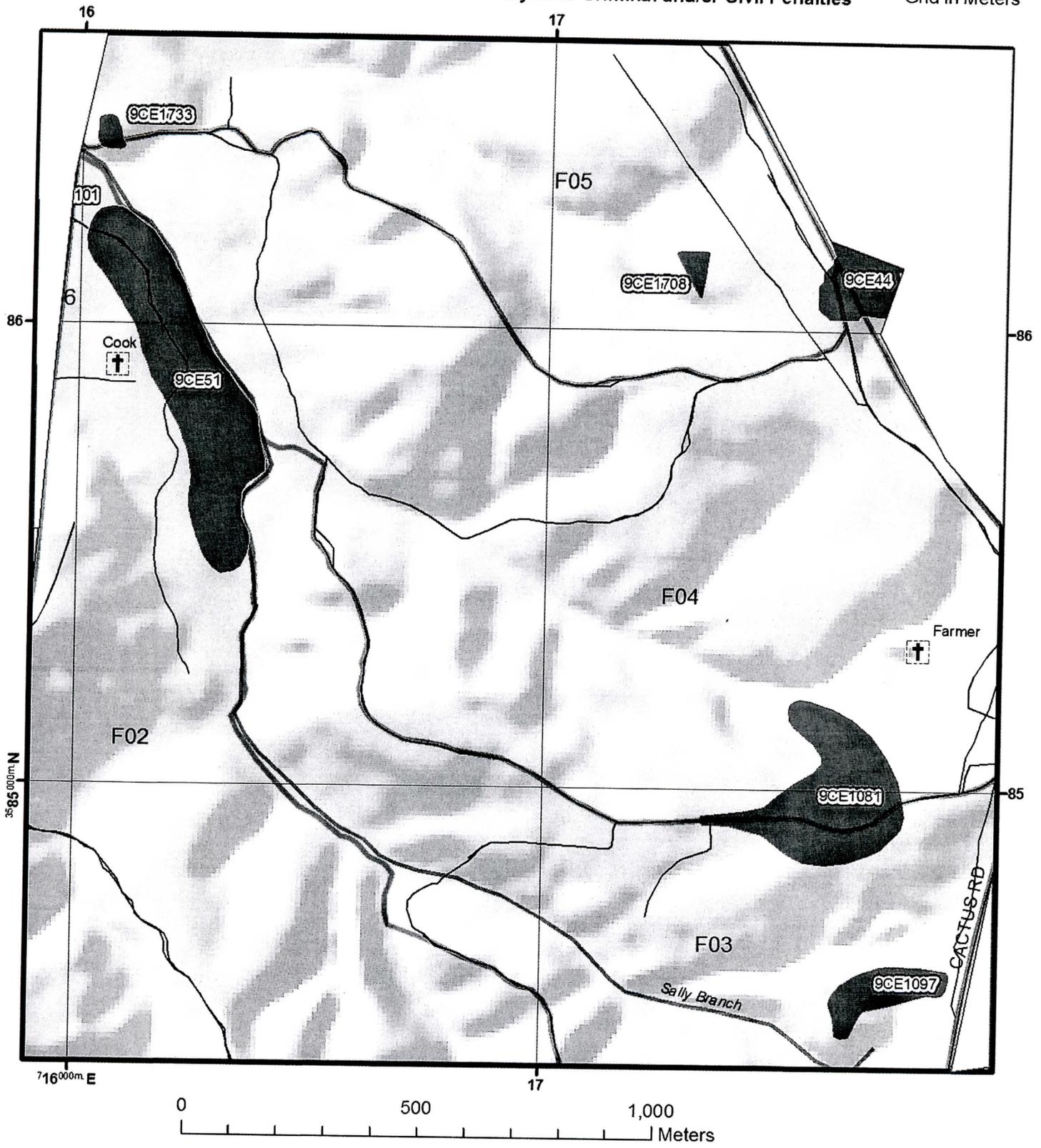
Note: Yes means that the activity may be conducted within 200 feet of a marked cavity tree

- (1) Vehicles (wheel and track) will not get closer than 50 feet of a marked cavity tree unless on an existing road or trail
- (2) Smoke generators and smoke pots will not be set up within 200 feet of a marked cavity tree, but the smoke may drift inside the 200 foot buffer

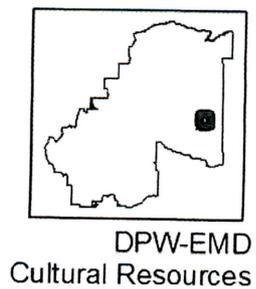


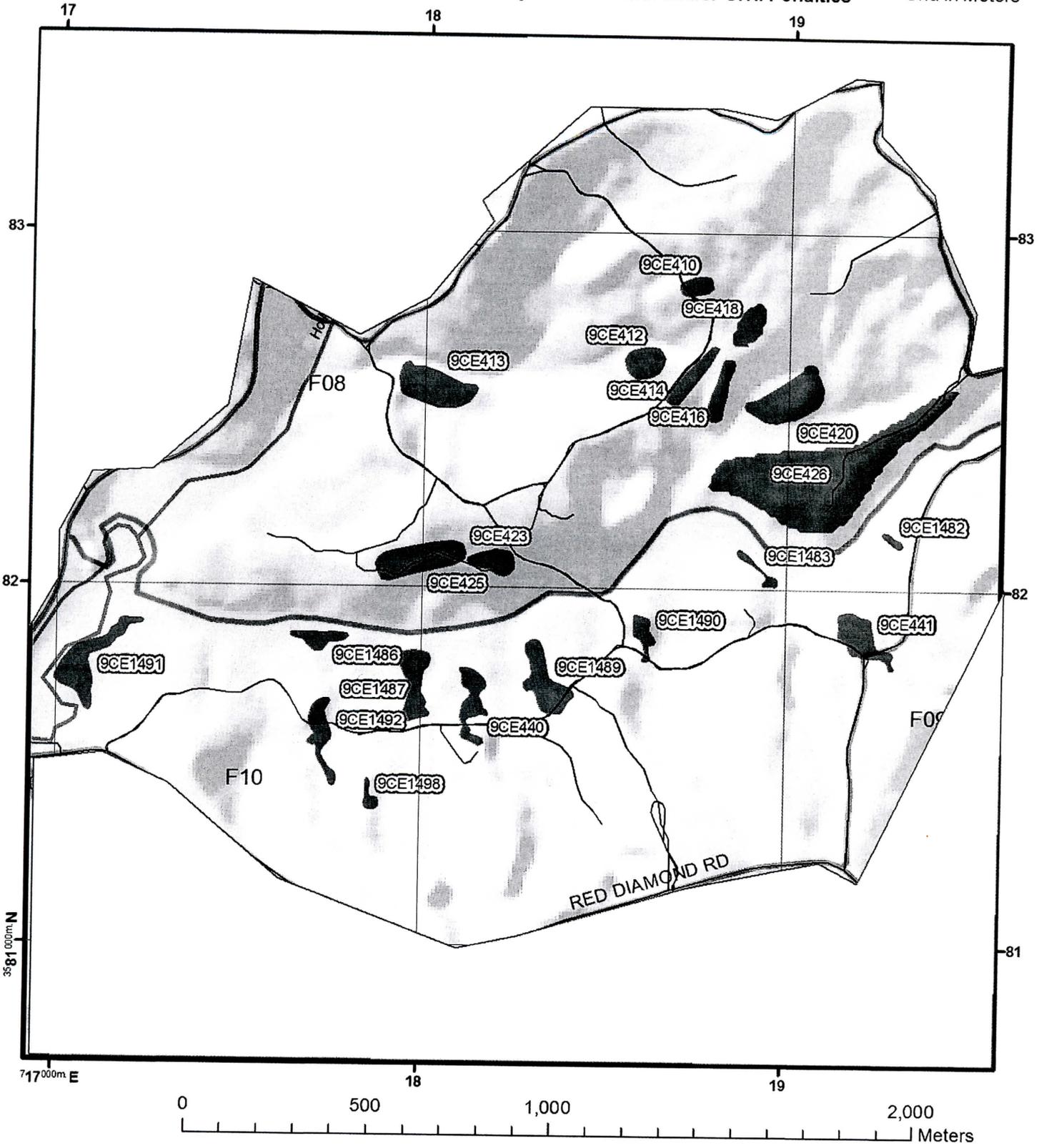
CRM  
NREG\_STT\_D  
■ ELIGIBLE  
■ RECOMMENDED



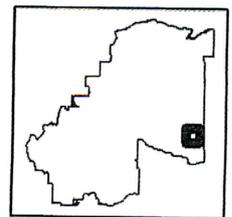


CRM  
NREG\_STT\_D  
■ ELIGIBLE  
■ RECOMMENDED

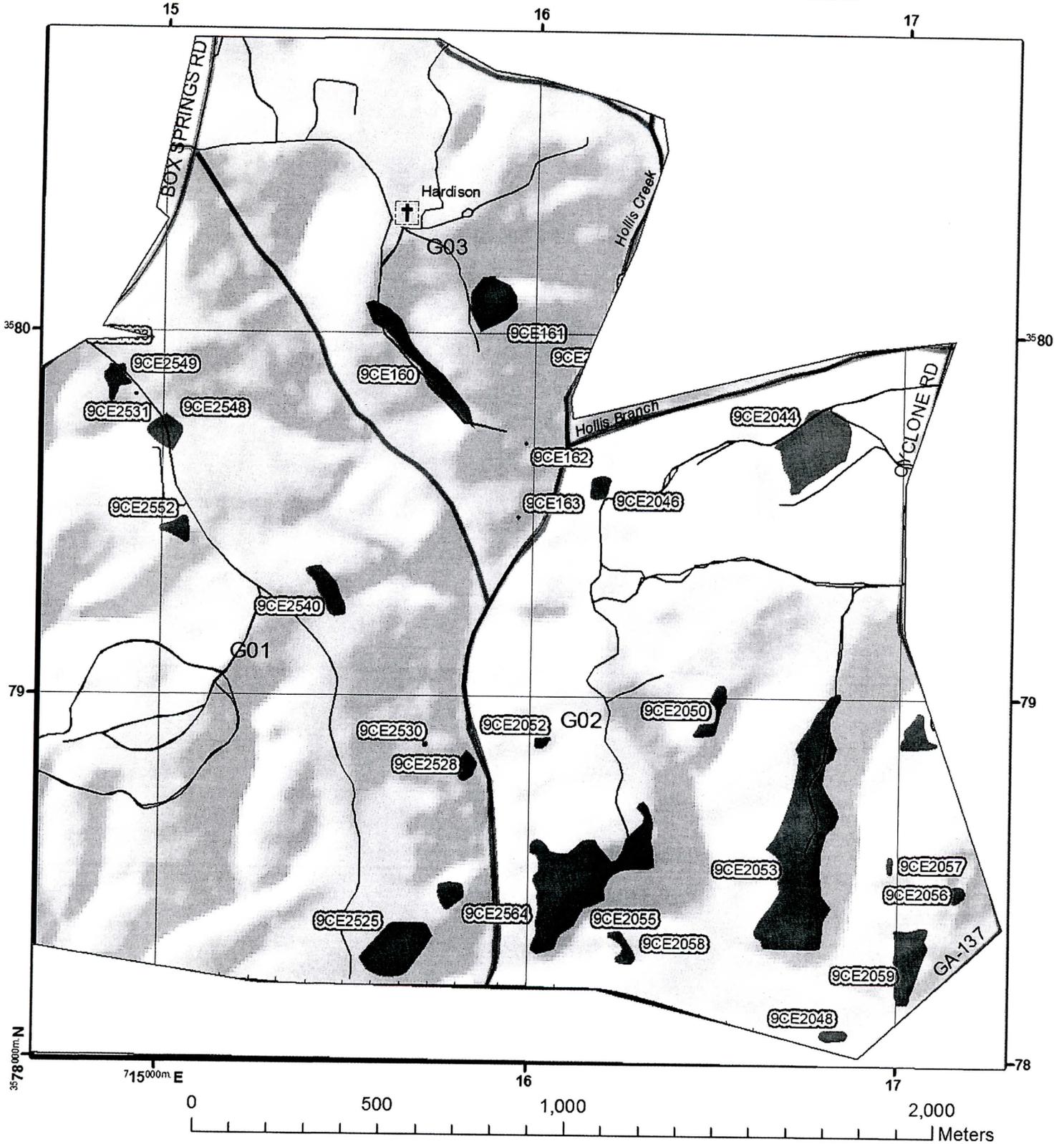




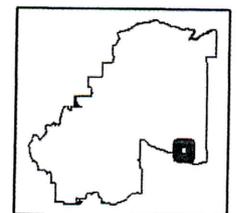
CRM  
NREG\_STT\_D  
■ ELIGIBLE  
■ RECOMMENDED



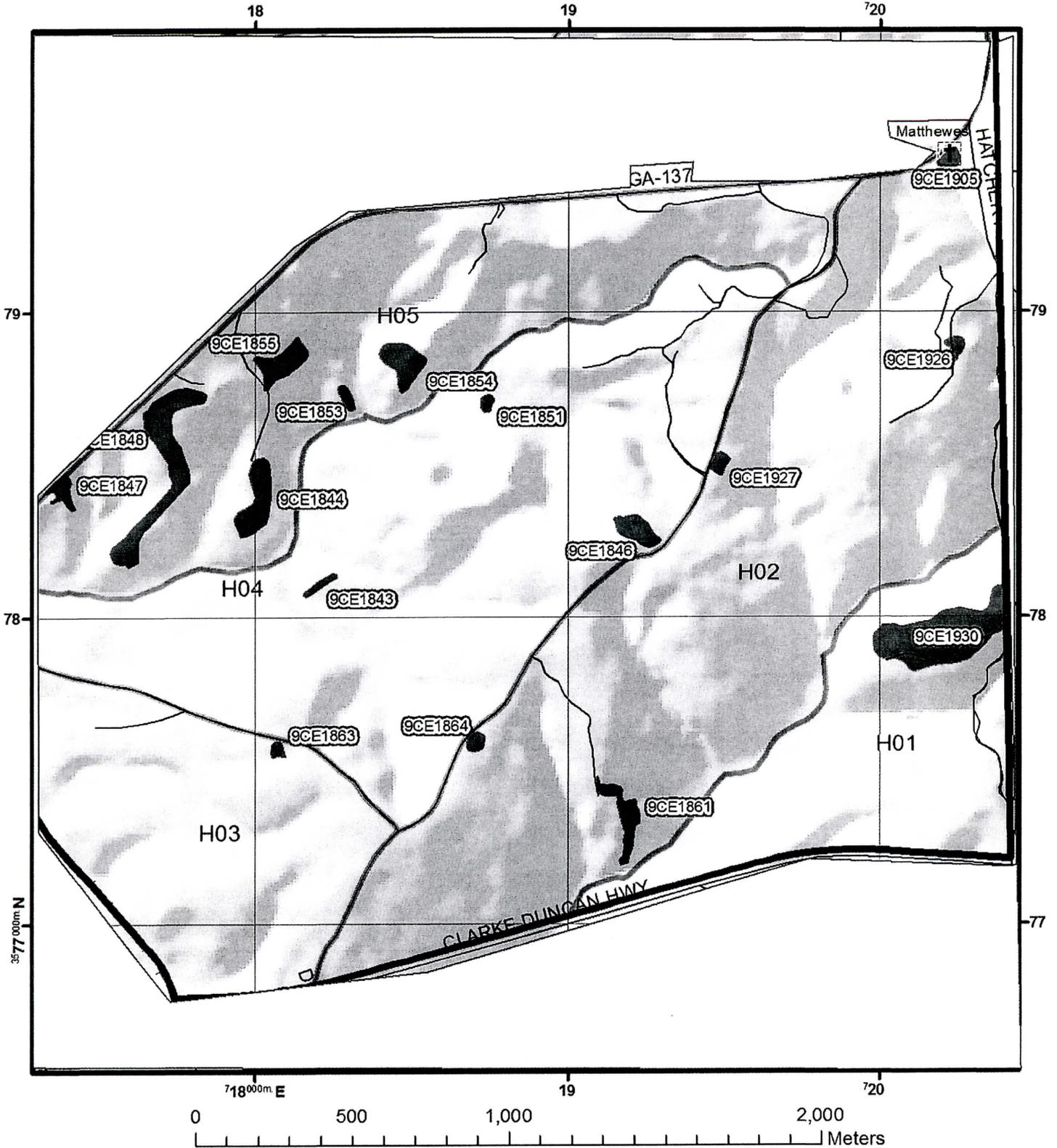
DPW-EMD  
Cultural Resources



CRM  
NREG\_STT\_D  
■ ELIGIBLE  
■ RECOMMENDED



DPW-EMD  
Cultural Resources

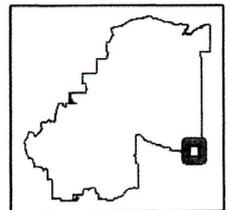


3577 000m N

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0 500 1,000 2,000 Meters

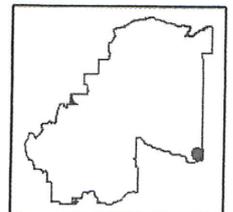
CRM  
NREG\_STT\_D  
■ ELIGIBLE  
■ RECOMMENDED



DPW-EMD  
Cultural Resources

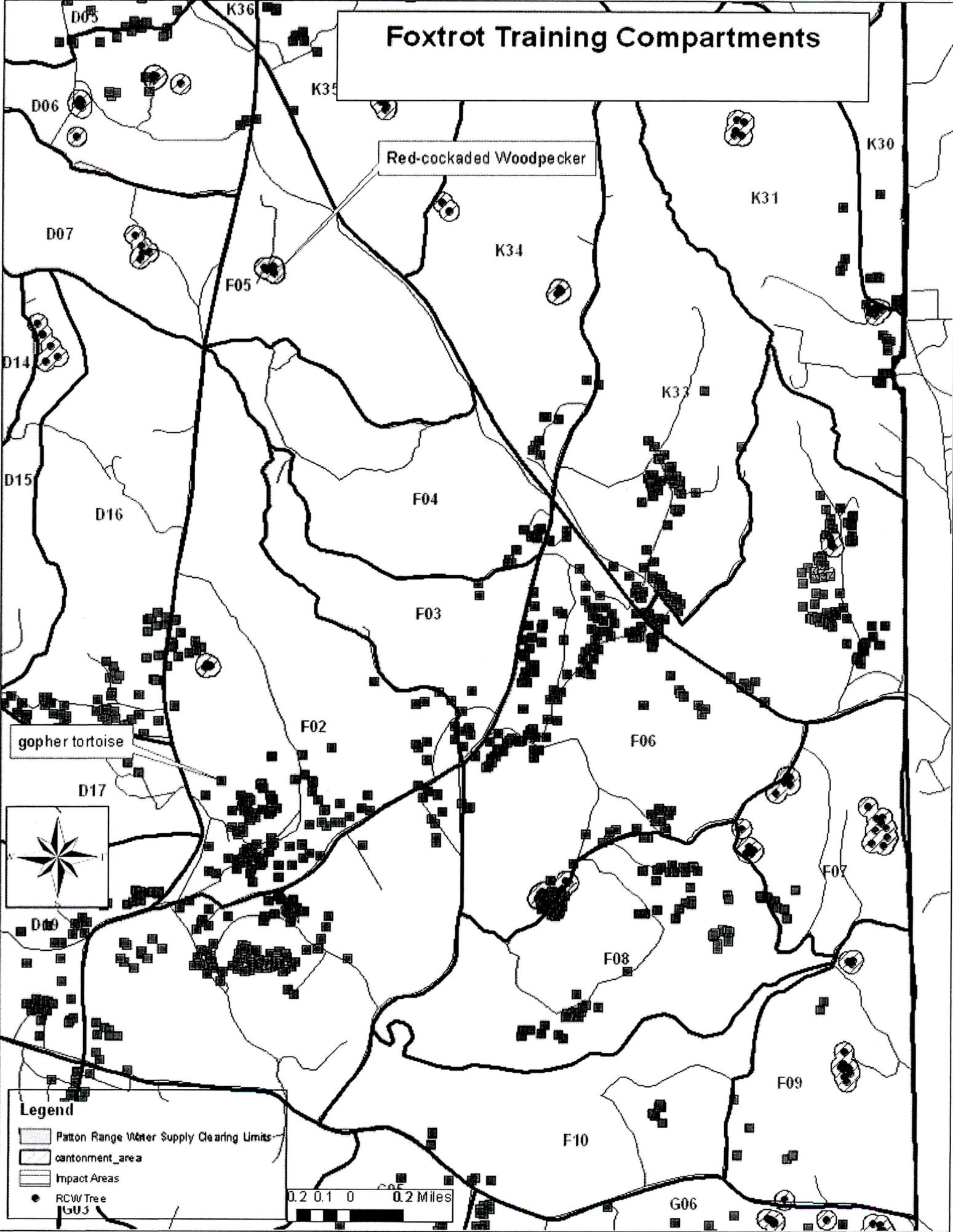


CRM  
NREG\_STT\_D  
■ ELIGIBLE  
■ RECOMMENDED



DPW-EMD  
Cultural Resources

# Foxtrot Training Compartments



Red-cockaded Woodpecker

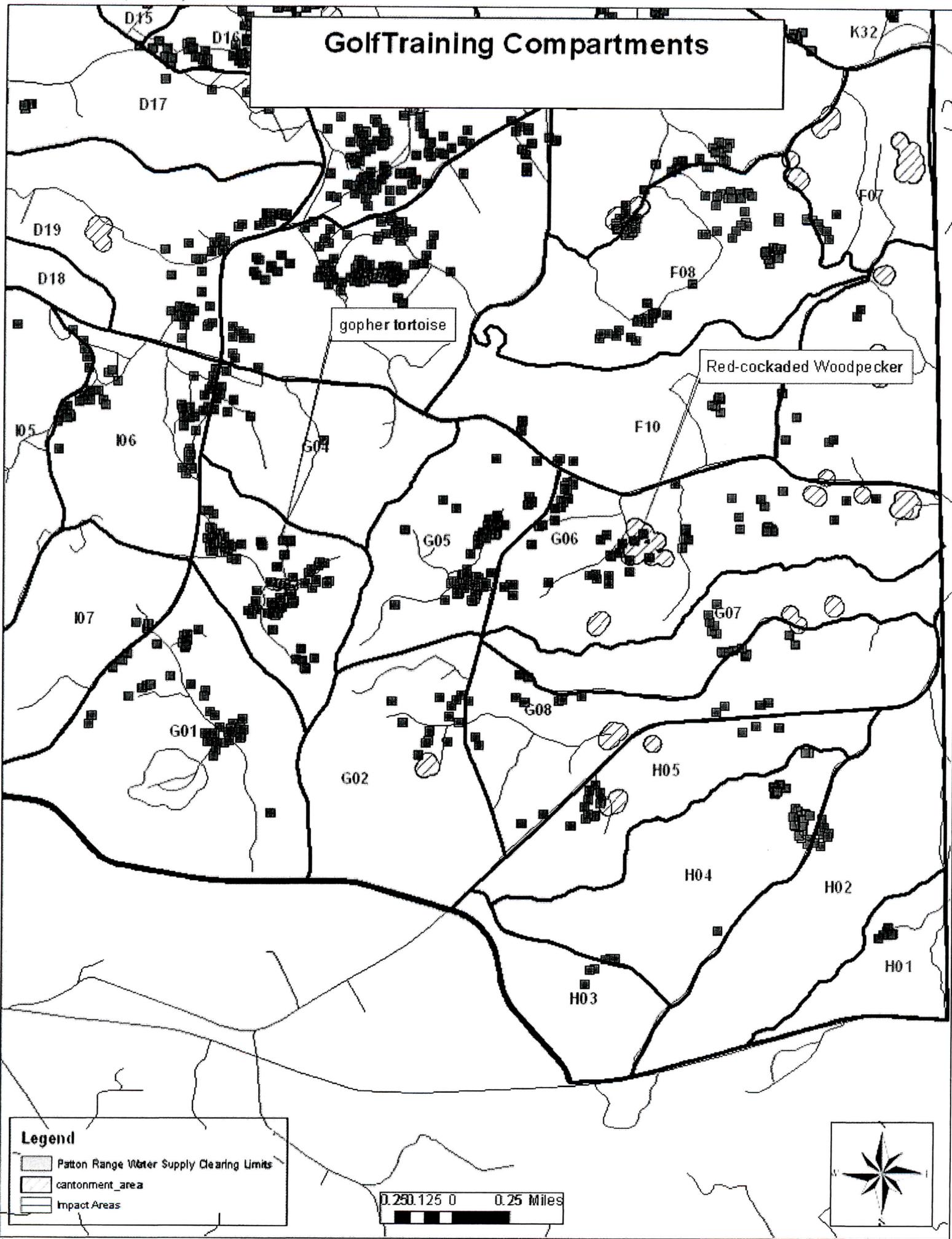
gopher tortoise

## Legend

- Patton Range Water Supply Clearing Limits
- cantonment\_area
- Impact Areas
- RCW Tree
- G.U.J.

0.2 0.1 0 0.2 Miles

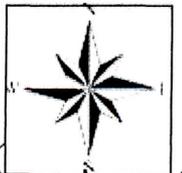
# Golf Training Compartments



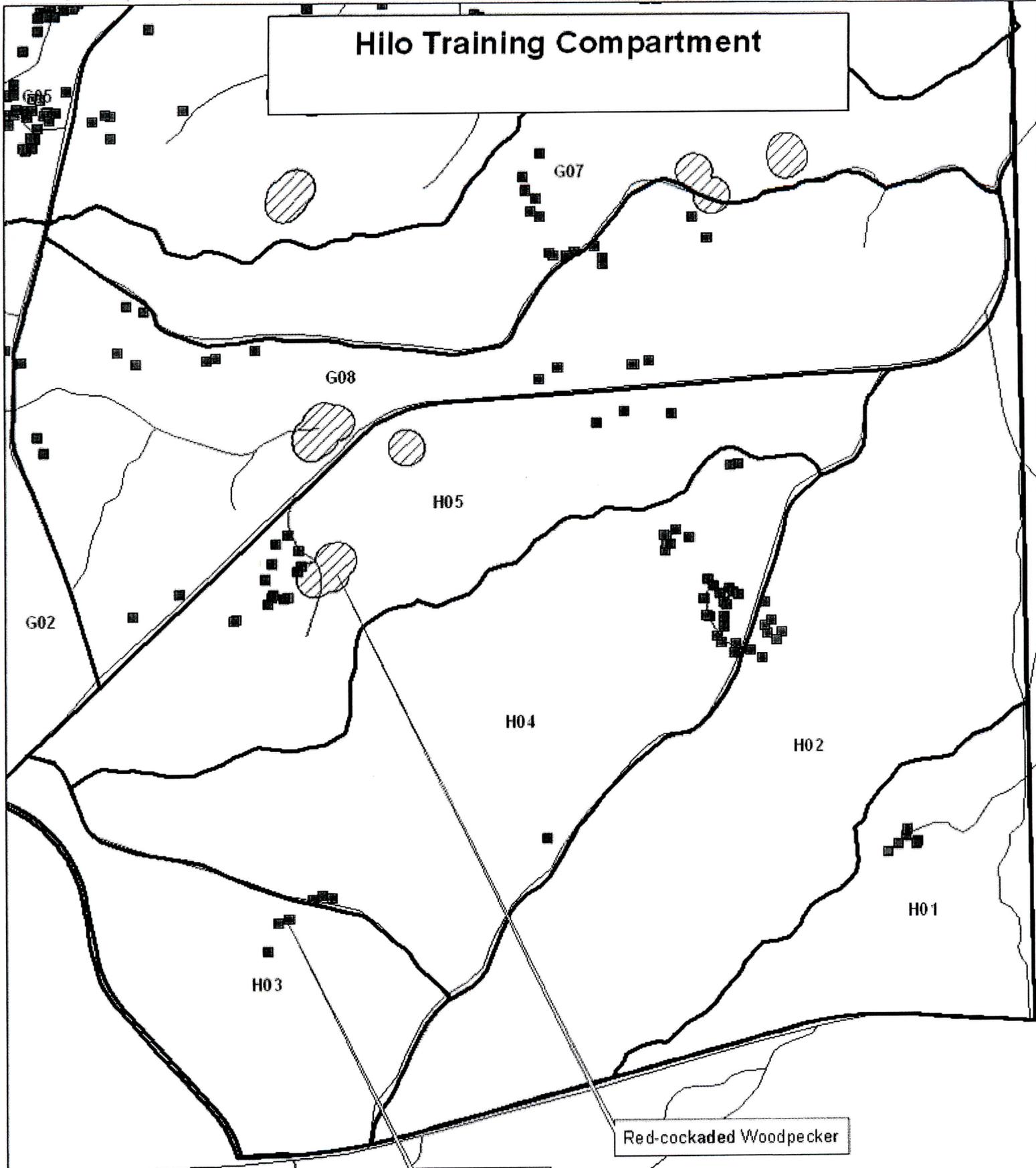
## Legend

- Patton Range Water Supply Clearing Limits
- cantonment\_area
- Impact Areas

0 0.125 0.25 Miles



# Hilo Training Compartment



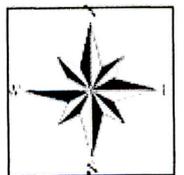
## Legend

- Patton Range Water Supply Clearing Limits
- compartment\_area
- Impact Areas

0 0.05 0.1 Miles

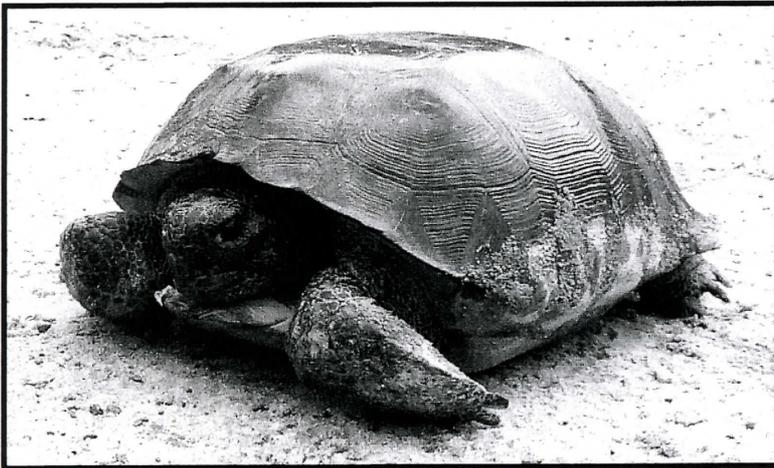
Red-cockaded Woodpecker

gopher tortoise



# **GOPHER TORTOISE - GEORGIA'S OFFICIAL STATE REPTILE**

The Gopher Tortoise (GT) is a "keystone species" because of its value to other animals. Over 300 species of amphibians, reptiles, insects, and mammals move in with the GT, using its burrow for hiding, nesting, or overwintering.



The GT is one of only three land tortoises left in North America, and it is the only one east of the Mississippi River. Due to habitat loss, the GT has declined over most of its range and is federally-listed as a species of concern.

Digging and vehicular traffic are the only two training activities destructive to the GT and its habitat: these activities are prohibited within 50 feet of tortoise burrows, whether the burrow is marked or unmarked. Many burrows are unmarked, but they are easily identified. Tortoise colonies near tracked vehicle areas are marked by "Sensitive Area" signs.



FIELD TRAINING EXERCISES AND DEPLOYMENT  
GENERAL SPCC CHECKLIST  
Figure 6.9.1

Units should continually keep HM/HW areas clean and orderly by applying the principals of Monitoring and Housekeeping. Vehicle Maintenance and Fueling Points, HW Collection Points and HM Storage & Supply Areas may not be set up at your filed training area and/or deployment destination.

**BEFORE** you deploy, plan to pack drip pans, rags, plastic, dry sweep, absorbent, and pallets to prevent drips, spills, and leaks from seeping into the ground and contaminating soil and water resources.

Plan to build your areas to prevent HM accidents before they occur. An easy way to remember what to check, is to remember your CHECK list:

**Containment:**

- \_\_\_ Ensure that secondary containment is used and in good condition.
- \_\_\_ Empty water within secondary containment on a regular basis. If water is contaminated, dispose of it IAW the Unit Hazardous Waste Management Plan.

**HM/HW locations:**

- \_\_\_ Make sure the locations of your HM/HW are well chosen. Stay away from waterways, drainage, sensitive areas, living areas, bunkers, ammunition storage, fence lines and/or dining facilities. Place them near the areas where hazardous materials are used.
- \_\_\_ Put up warning signs and keep them clean and orderly.

**Environmental Documentation:**

- \_\_\_ Maintain MSDSs for each hazardous material and update Unit/Activity SOPs and Spill Response Plans regularly.

**Containers:**

- \_\_\_ Check condition of containers and keep containers of incompatible materials in proper order.

**Kits:**

- \_\_\_ Place Spill Kits, First Aid Kits, and Emergency Response Kits in the vicinity of the HM/HW areas.
- \_\_\_ Spill Kits should also be available on vehicles transporting hazardous material/waste.

## SPILL RESPONSE RECORD

**PHASE I - IMMEDIATE ACTIONS FOR EVALUTING AND REPORTING SPILLS:**

**IMMEDIATELY REPORT ALL SPILLS TO YOUR SUPERVISOR AND CALL 911**

**\*\*BE PREPARED TO PROVIDE THE FOLLOWING INFORMATION TO 911 OPERATOR:**

*During Duty Hours also Call Mr. Felix Seda, EPMB Spill Manager at 545-9879*

1. DATE/TIME OF SPILL: \_\_\_\_\_
  2. LOCATION: \_\_\_\_\_
  3. MATERIAL SPILLED (include NSN and ingredients, if able): \_\_\_\_\_
  4. HAZARD: FLAMMABLE \_\_\_\_\_ TOXIC \_\_\_\_\_ CORROSIVE \_\_\_\_\_  
OXIDIZER \_\_\_\_\_ REACTIVE \_\_\_\_\_ UNKNOWN \_\_\_\_\_  
OTHER (specify) \_\_\_\_\_
  5. CAUSE OF SPILL: \_\_\_\_\_
  6. DESCRIPTION OF SPILL QUANTITY, SIZE AND TYPE OF AREA AFFECTED:
    - a. Quantity Released and Size of Spill Area: \_\_\_\_\_
    - b. Soil: \_\_\_\_\_
    - c. Pavement: \_\_\_\_\_
    - d. Vegetation: \_\_\_\_\_
    - e. Storm or Sewer Drain: \_\_\_\_\_
    - f. Name of Body of Water (River, Creek, Pond, Lake, Drainage Ditch): \_\_\_\_\_
  7. HAS RELEASE BEEN STOPPED? \_\_\_\_\_
  8. HAS RELEASE BEEN CONTAINED? \_\_\_\_\_
  9. DID RELEASE CROSS INSTALLATION BOUNDARIES? (IF YES, DESCRIBE LOCATION) \_\_\_\_\_
  10. TYPE AND EXTENT OF INJURIES, IF ANY: \_\_\_\_\_
- \*\*Provide a copy of this form to DPW EPMB Spill Program Manager or FAX to 545-4209**
- PHASE II - POST-SPILL RESPONSE AND CLEAN UP ACTIONS:**
11. DESCRIBE CLEAN-UP METHOD AND CONTAINMENT PROCEDURES: \_\_\_\_\_
  12. NAME OF CONTRACTOR INVOLVED IN CLEAN-UP: \_\_\_\_\_
  13. ESTIMATED AMOUNT OF SPILL RESIDUE AND CONTAMINATED MATERIAL REMOVED: \_\_\_\_\_

## FORT BENNING ENVIRONMENTAL REGULATIONS SUMMARY

**SENSITIVE AREAS:** Endangered species habitat or cultural resources. They are marked with steel pickets and white signs. Digging and vehicular traffic is prohibited.

**POL/HAZMAT SPILLS:** Report all spills through Range Control at 545-3474. If assistance is required from the Fire Department/HAZMAT Team, Range Control will make notifications through E-911. For POL spills greater than 20 gallons on land or any quantity on surface water, the Environmental Management Division (EMD) must be immediately notified through E-911 or 545-9879/4203. For POL spills less than 20 gallons on land, a Spill Report Form must be submitted within 24 hours to the EMD (Call 545-9879 and/or FAX 545-4209). After hours call the spill pager at 317-6584.

Unit should begin spill control measurements (REACT) within their capabilities. If a spill occurs within a sensitive area; stop the source, contain, and absorb the spill material - do not dig until EMD personnel arrive at the site.

Be prepared to report:

- Time, grid location, and cause of spill.
- Type of product and amount spilled.
- Distance from flowing water.
- Action taken to combat spill.

See USAIC 210-4, Range and Terrain Regulations, for more detail.

### ENVIRONMENTAL INCIDENT REPORT FORM

Unit: \_\_\_\_\_

OIC/NCOIC: \_\_\_\_\_

Training Area: \_\_\_\_\_

Grid Coordinates: \_\_\_\_\_

Date and Name: \_\_\_\_\_

Signature: \_\_\_\_\_

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