

### FIRING/NONFIRING DATA

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

**TO:** Chief,  
Range Division,  
Directorate of Plans, Training, Mobilization and Security  
Fort Benning, GA 31905

**Date:** 3 Feb 2012  
**Range:** Malone 24  
**Title:** RTB Mortar Range Best Ranger 2012  
**Problem No:**

LOG# 1-15-12

**THRU:** S3, 4th RANGER TRAINING BATTALION  
Fort Benning, GA. 31905

**FROM:** HHC, 4th RANGER TRAINING BATTALION  
Fort Benning, GA. 31905

#### SECTION I, TYPE OF TRAINING

a. Live Fire       b. Non-live Fire      CP/Controller Coordinates: GA 0113 9012

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

Coordinates	Type	Model/DODAC	Size of Charges

#### SECTION III, WEAPONS/AMMUNITION REQUESTED

Coordinates of Weapons Position	Type Weapon/Model Number	Type Ammunition	Left Limit	Right Limit
60MM Main FL GA 0121 9013 TO GA 0123 9010	60MM MORTAR	HE	0765	1300

#### 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:  
CPT BRANDON KENNEDY, HHC CDR

Name/rank of Major Unit S3/Commander:  
CPT GARY CARTY, S3

#### SECTION VI, FOR RANGE DIVISION USE

DATE: 13 MAR 12

**TO:** HHC, 4th Ranger Training Battalion  
Fort Benning, GA. 31905

**FROM:** Range Division,  
Directorate of Plans, Training,  
Mobilization and Security  
Fort Benning, GA 31905

- a. Roadblocks to be closed:
- b. Road(s) to be closed/road barrier locations:
- c. Remarks:
- d. This approval expires: 12 MAR 14

SEE ROAD BLOCK ENCLOSURE

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

*Brandon S. Turner*

## ARTILLERY/MORTAR SAFETY RECORD

1. DATE OF REQUEST

(DD/MM/YYYY)

For use of this form, see MCoE Regulation 350-19; the proponent is DPTMS, Range Division.

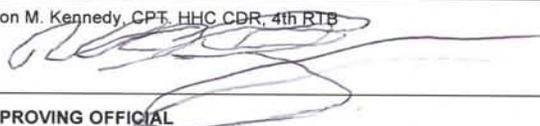
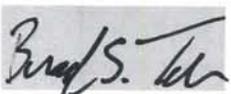
2 Feb 2012

<b>2. UNIT</b> HHC, 4th RTB Fort Benning, GA. 31905	<b>3. TITLE</b> Best Ranger 2012
<b>4. FIRING POINT NUMBER</b> Malone 24	<b>5. WEAPONS</b> 60mm Mortar

**6. COORDINATES**  
 Main Firing Line GA 0121 9013 to GA 0123 9010

7. WEAPON PROJECTILE	8. LEFT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	9. RIGHT LIMIT <input type="checkbox"/> deg <input checked="" type="checkbox"/> mil	10. MINIMUM RANGE METERS	11. MAXIMUM RANGE METERS	12. MINIMUM CHARGE	13. MAXIMUM CHARGE	14. MAXIMUM ORDNANCE <input checked="" type="checkbox"/> m <input type="checkbox"/> ft
HE M720/M720A1	0765	1300	295	425	0	1	683
HE M49A4	0765	1300	295	425	1	2	607

**15. SPECIAL INSTRUCTIONS:** This FB Form 350-19-2-E-R must accompany the corresponding FB Form 350-19-1-E-R.

<b>16. NAME AND RANK OF THE REQUESTING OFFICER</b> Brandon M. Kennedy, CPT, HHC CDR, 4th RTB 	<b>17. SIGNATURE</b> 
<b>18. APPROVING OFFICIAL</b> Chief, Range Division Directorate of Plans, Training, Mobilization, and Security	<b>19. SIGNATURE</b>   <p style="text-align: right; font-size: 1.2em; font-weight: bold;">13 MAR 12</p>



**DEPARTMENT OF THE ARMY**  
HEADQUARTERS UNITED STATES ARMY MANEUVER CENTER OF EXCELLENCE  
1 KARKER STREET  
FORT BENNING, GEORGIA 31905-5000

REPLY TO  
ATTENTION OF  
ATZB-SO

23 February 2012

MEMORANDUM FOR Commander, 4<sup>th</sup> Ranger Training Battalion, Attn: SFC Marsh, Fort Benning, GA 31905

SUBJECT: 4<sup>th</sup> Range Training Battalion Best Ranger Competition Mortar Firing on Malone 24 Concept and Safety Review

1. References.

- a. 4<sup>th</sup> Range Training Battalion Best Ranger Competition Mortar Firing on Malone 24 Concept, dated 04 January 2012.
- b. Army Regulation 385-10, The Army Safety Program, 24 August 2007
- c. Army Regulation 385-63, Range Safety, 19 May 2003
- d. Department of the Army Pamphlet 40-501, Hearing Conservation Program, 10 December 1998
- e. Department of the Army Pamphlet 385-10, Army Safety Program, RAR 19 January 2010
- f. Department of the Army Pamphlet 385-30, Mishap Risk Management, RAR 01 February 2010
- g. Department of the Army Pamphlet 385-63, Range Safety, RAR 12 May 2009
- h. Field Manual 5-19, Composite Risk Management, August 2006
- i. MCoE Regulation 350-19, Range and Terrain Regulation, 23 July 2010

2. Document received on 16 January 2012.

3. Concur.

ATZB-SO

SUBJECT: 4<sup>th</sup> Range Training Battalion Best Ranger Competition Mortar Firing on Malone 24  
Concept and Safety Review

4. Point of contact is Mr. Michael W. Risher II, MCoE/Fort Benning Safety Office, Comm.  
(706) 545-8278, Govt. Cell. (706) 604-7249, [michael.w.risher.civ@mail.mil](mailto:michael.w.risher.civ@mail.mil)

  
JILL E. CARLSON  
Director, MCoE/USAG Safety



DEPARTMENT OF THE ARMY  
HEADQUARTERS, 4<sup>TH</sup> RANGER TRAINING BATTALION  
FORT BENNING, GA. 31905-4167

ATSH-RBD-O

4 January 2012

MEMORANDUM THRU: Chief, Range Operations, Directorate of Plans, Training & Mobilization

FOR: Best Ranger Competition

SUBJECT: 60mm Mortar Handheld Direct Lay Live Fire Scenario, Best Ranger Competition

1. M224, 60mm Mortar Training Phase (Live Fire Exercise), Day

- a. Range Cadre occupy the range to receive the Competitor Teams and initiate range preparations.
- b. Range is opened thru range control; Range flag is hoisted.
- c. Cadre receive ammo delivery and consolidate and organize the ammo IAW with all applicable policies and regulations.
- d. Competitor Teams arrive and are consolidated and organize in holding area vic. grid GA 0117 9005; accountability is conducted.
- e. Range Safety gives Range Orientation/Safety Briefing to competitor teams in Competitor Holding Area.
- f. Teams are given the Task Conditions Standards as well as the scoring system for the 60mm mortar fire.
- g. OIC calls Range Control and requests permission to go "wet" for live fire operations,
- h. Cadre supervise ammo breakdown and final range preparations.
- i. During Rehearsals, Competitor Teams will observe a live fire demonstration, demonstrating the employment and effects of 60mm mortar fire in the handheld mode. 60mm Mortars will be pre positioned on the firing line. Individual firing point cadre will then run every Competitor Team through dry-fire rehearsals. Firing point cadre will conduct rehearsals as long as necessary to ensure that every Ranger can safely conduct the task of firing the 60mm mortar in the hand held mode. Ammunition will be allotted so that each Competitor has the chance to conduct a live fire 60mm direct-lay test fire

during rehearsal week. Range Cadre will also brief and rehearse misfire procedures with every Competitor team as long as necessary to ensure that every Ranger can safely react to a 60mm mortar misfire.

j. During the competition, Competitor Teams will be divided into chalks (four firing orders) and assigned to a specified firing point with a designated firing point cadre. Competitor teams will be further divided into Gunner and Assistant Gunner.

2. 60MM Live Fire phase is conducted from the firing points located at GA 0121 9013- GA 0123 9010 IAW current POI, FM 3-22.90, FM 3-22.91 and TM 9-1010-223-10.

a. LFX will be conducted from approx. 1200hrs – UTC.

b. Competitors will arrive to Malone 24 range via Wildcat Road, road guards will direct them along the designated route until they reach the briefing area (adjacent to the bleachers vic the firing line). Teams will be briefed by the RSO on range safety procedures and by their grader on the course of fire. Teams will conduct their course of fire. Graders will score the course of fire, safeties will ensure no unsafe acts occur. Once rounds are complete or time expires, teams will receive their overall score for the range and be directed to the transition NCO who will brief them to secure their equipment and move along the designated route to move to the next event. Additional rounds will be present at the range to allow for alibi fire.

c. Teams waiting to fire will move to the holding area until a firing point becomes available.

d. Instruction and demonstration of the handling and disposal of excess propellant charges from expended rounds will be executed by cadre only after the event has been completed IAW MCoE Reg. 350-19, Chapter 5, para 5-9. Burn pit located at grid GA 0017 9017.

e. Any and all misfires will be handled by range cadre upon the announcement of a "misfire"; all competitors will be directed to move beyond 50 meters to the rear of the firing line. Firing Line will not be occupied until the misfire has been cleared.

f. Cadre supervises policing of the range and consolidation of all dunnage.

g. All troops, equipment and dunnage will be accounted for prior to the Cadre's release from Malone 24.

h. Range is closed through range control.

i. Unit will not have personnel on the 60mm Mortar non firing point located at grid 0112-9027 when the Mortars are live firing.

3. Ammunition:

a. All ammunition will be under range cadre supervision at all times.

b. All ammunition will be segregated by lot number and type if more than one should be on site at the same time.

4. Medical:

a. A Front Line Ambulance (FLA) with medic or Combat Lifesaver with a designated non-standard casualty evacuation vehicle and fully serviceable CLS kit and litter will be on-site at all times as well as seasonal appropriate aid rendering measures (e.g. iceblankets; warming blankets, etc.)

b. Unit will use the standard 9 Line MEDEVAC in case of illness or injury. Call 911 and determine what type of evacuation is the most appropriate for the injury. MEDEVAC will be IAW MCoE Regulation 350-19 and USAIC 40-2. Landing zone for MEDEVAC aircraft will be established prior to use and will be marked appropriately. This will be done by a Pathfinder qualified NCO from 4<sup>th</sup> RTB. In the event of a MEDEVAC, the area to the South East of the designated holding area will be utilized as an HLZ. Using units higher Headquarters and Range Control will be notified in this event.

c. When an incident occurs on the range, regardless of injury or not, the OIC/RSO will immediately report it to Range Control and the using unit's higher headquarters. The following information will be furnished by the OIC/RSO to Range Control. **This will pertain to the Civilian Spectators also:**

- a. Designation of unit.
- b. Range and location
- c. Type of weapon involved.
- d. Type of ammunition involved.
- e. Brief summary of what happened.
- f. Personnel injuries and extent.
- g. Full Name, SS#, Rank and unit of injured personnel.
- h. Extent of property damage.
- i. Intentions regarding an AR 15-6 investigation.

5. Safety:

a. The following will be on-site at all times;

- 1: Range Request (Request Summary)
- 2: 350-19-1-E-R Fire Non-Fire Data
- 3: 350-19-2-E-R Artillery/Mortar Safety Record
- 4: Ice sheets (if applicable)
- 5: Wet bulb
- 6: Hearing/Eye protection
- 7: FB Form 144-R
- 8: Composite Risk Management Worksheet (training unit copy; Range copy (macro); and daily Risk Assessment)
9. Range Book IAW with all standards, current policies and regulations
10. All applicable FM's and TM's on hand

b. All personnel will receive a safety briefing from the 'Range Safety Officer' prior to training.

- c. All personnel will be inspected for ear and eye protection. This includes the Competitors, Cadre, Safeties and Civilians. Firers will wear their Body Armor.
- d. Each mortar gun team will have at least one range safety.
- e. All misfire/hang-fire procedures will be conducted by cadre and IAW Army Regulations and unit SOP as they pertain to each individual mortar system.
- f. The RSO will ensure all access points to the range are secured.
- g. At no time will anyone be allowed forward of the firing line and into the SDZ.
- h. All Composite Risk Management Worksheet concerns will be observed. Violations of any kind will be brought to the attention of the RSO and/or range cadre..
- i. All DUD's will be reported to Range Control immediately.
- j. In the event of a short round or a round out of the safe area, a "CHECK FIRE" status will immediately go into effect and the OIC or RSO will immediately notify Range Control.
- k. Unit will maintain continuous contact with Range Control at all times. If communications are lost the unit will go into a self induced check fire until communications are restored.
- l. Weapons/Ammunition Malfunction Reports: When a malfunction is experienced, the OIC or Range Safety Officer will suspend all firing and immediately notify Range Control. Retain the weapons and all components and ammunition involved in place. An investigation is required and will be conducted by DOL.
- m. **There will be no deviations to this packet unless it is approved by Range Control.**

#### **CIVILIAN CONSIDERATION:**

- No civilians will be allowed to fire during the competition.
- There will be RTB personnel designated to control crowd accountability and movement to and from the entrance of the range. Two details will be established: Crowd Control and Parking.
- Cadre of the Parking detail will position themselves at the entrance to Malone 24 and along the access road into Malone 24 Range. They will direct all non Range support vehicles to park along Wildcat road (primarily along the East Side of the Road approximately 200-300 meters north and South of the entrance to the range).
- The parking detail will direct spectators to walk along the range access road to the designated viewing areas and remind all spectators to remain behind the yellow ropes at all times. Spectators will be reminded to stay on the right side of the access road while walking up it to prevent interfering with necessary range traffic. Parking detail cadre will also act as road guards/crossing guard on the Range access road to control the flow of spectators and vehicles as necessary.
- Parking detail will identify handicap/VIP parking for those who qualify. Handicap and/or VIP vehicles will be allowed to move along the Range access Road and park in designated parking areas closer to the viewing area.

-“No Parking” signs will be placed along the tank trail adjacent to approximately 50 meters to the NW of the Range Entry point to prevent spectators from blocking the road from use by other units. RTB Cadre will enforce the no parking ban.

-Yellow rope will be strung up to prevent spectators from entering the fire areas and to keep them away from any hazards. 4<sup>th</sup> RTB will have designated cadre (the Crowd Control detail) assigned to guard and patrol the ropes to ensure that no spectators attempt to cross the rope barriers for any reason.

-Select civilians (dignitaries, media, weapons handlers, etc.) and Military Personnel (VIP G.O.s, CSMs, etc) may be authorized by the event OIC to cross the yellow rope but will be escorted at all times by RTB Cadre. At no time will the Crowd Control detail allow un-escorted VIPs to cross the rope barriers.

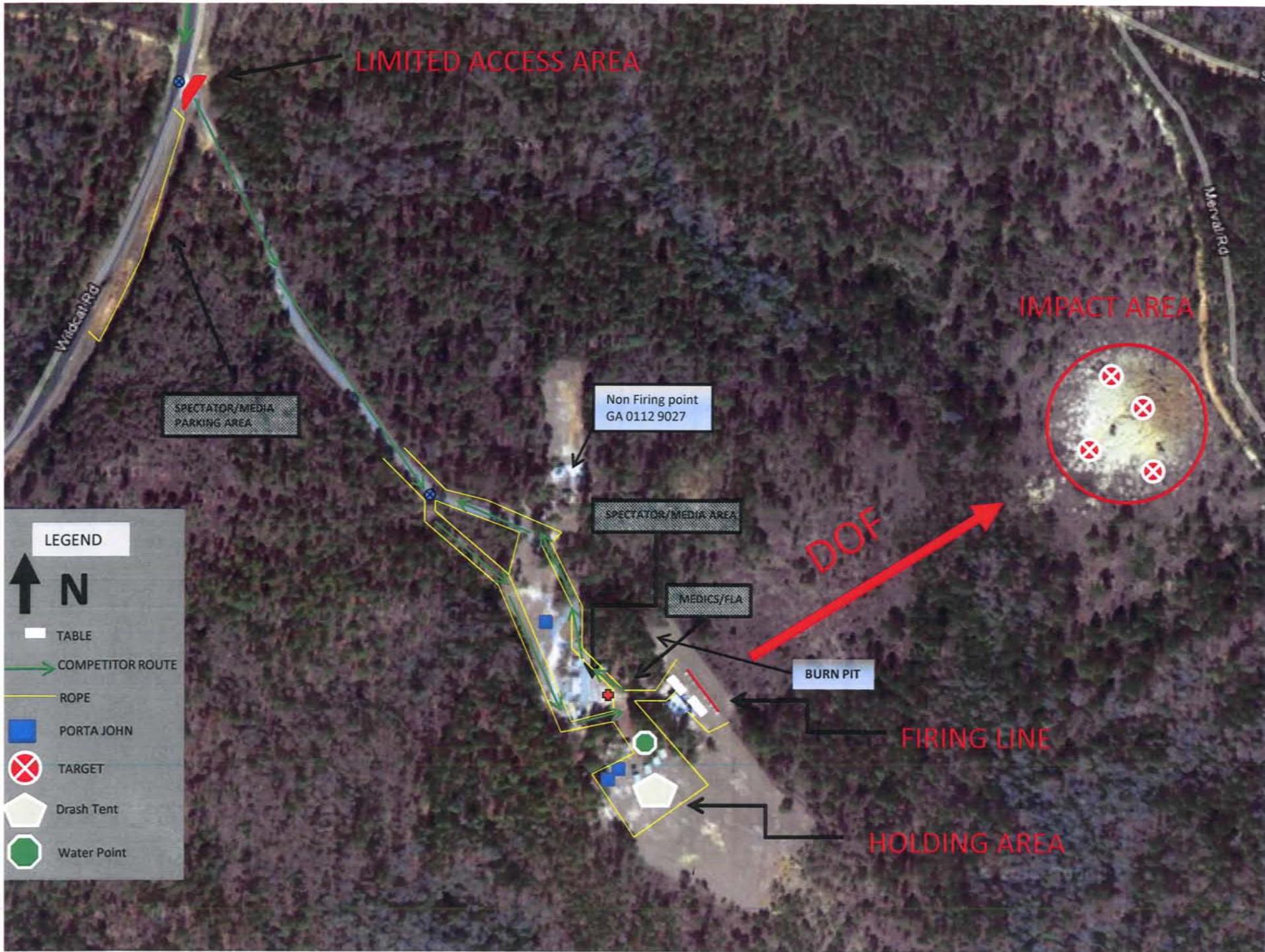
-The Range will have a designated VIP briefer who will take control of VIPs in order to allow the OIC/NCOIC to continue to execute their specified duties.

-Hearing protection will be provided when entering the range complex.

6. POC is SFC Travis McBride, Merrills PSG, 4<sup>th</sup> Ranger Training Battalion, (706) 604-7350.

  
//SIGNED//  
BRANDON M. KENNEDY  
CPT, IN  
Commanding





## Malone 24 BRC Log# 1-15-12 Gates and Roadblocks 7 Feb 2012

#	GRID	LOCATION	TYPE
M-1	009 910	Across Steam Mill Rd 10m E of its intersection with Wildcat Rd.	Gate
M-2	019 938	Across Massey Rd 10 meters S. of its intersection with Buena Vista Rd.	Gate
M-3	046 892	Across Stenay Rd 30m N. of its intersection with 2nd Armored Division Rd.	Gate
M-4	046 935	Across Red Arrow Rd 30m S. of its intersection with Buena Vista Rd.	Gate
M-5	045 933	Across unnamed trail 220m SW of its intersection with Red Arrow Rd.	Gate
M-6	058 927	Across Red Arrow Rd 30m W. of its intersection with Midwest Rd.	Gate
M-7	052 923	Across Steam Mill Rd 400m S. of its intersection with Red Arrow Rd.	Gate
M-8	021 891	Across unnamed trail on S side of 2nd Armored Div Rd 110m E of entrance to Malone 2.	Gate
M-9	032 937	Across unnamed trail on S side of Buena Vista Rd 200m E. of entrance to Young Range.	Gate
M-10	059 926	Entrance to Borrow Pit on Red Arrow Rd. 50m SE of M-6 Roadblock	Gate

## COMPOSITE RISK MANAGEMENT WORKSHEET

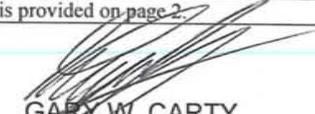
For use of this form, see FM5-19; the proponent agency is TRADOC

1. MSN/TASK <b>60MM MORTAR DIRECT LAY HANDHELD (MALONE 24) 2012 BEST RANGER COMPETITION</b>	2a. DTG BEGIN  190600 MAR 2012	2b. DTG END  302400 APR 2012	3. DATE PREPARED (YYYYMMDD)  2012/01/16
--	--------------------------------------	------------------------------------	---

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?
60mm Mortar Direct Lay Handheld	General Situational Awareness	S-Cr / P-S Moderate	1. Review the Composite Risk Management Worksheet prior to training. 2. Prepare a daily risk assessment worksheet and factor in current weather and range conditions. 3. Ensure Medics and FLAs are on site. 4. Review evacuation procedures and reporting procedures for serious incidents. 5. Direct MEDEVAC when the danger of loss of life, limb, or eyesight exists. 6. Anyone may call a cease fire if they observe an unsafe act.	S-Cr / P-U Low	1. MCoE Reg 350-19, Range and Terrain 2. FM 3-22.90, Mortars 3. DA PAM 385-63, Range Safety 4. AR 385-63, Range Safety 5. Direct Supervision	1. OIC / NCOIC 2. Range Safety Officer 3. Range Safeties	
	Firing Outside of Target Area	S-C / P-S High	1. Range safety briefing will be given to competitors prior to firing that outlines the target area. 2. Each mortar will have a Safety NCO observing while the competitors engage targets. 3. Mortar rounds will be set to charge 0.	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)			
<input type="checkbox"/> LOW	<input checked="" type="checkbox"/> MODERATE	<input type="checkbox"/> HIGH	<input type="checkbox"/> EXTREMELY HIGH
			 GARY W. CARTY CPT, IN Operations Officer

14. RISK DECISION AUTHORITY			
a. LAST NAME <b>SCHABBEHAR</b>	b. RANK <b>LTC</b>	c. DUTY POSITION <b>COMMANDER, 4<sup>TH</sup> RTBn</b>	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?
60mm Mortar Direct Lay Handheld	Improper Handling of Mortar Rounds	S-C / P-S High	1. All competitors will be briefed and trained on handling and firing of the mortar rounds during "Competitors Week" training. 2. Each mortar will have a Safety NCO observing while the competitors handle the rounds. 3. Medics and FLA on site.	S-C / P-U Moderate	1. MCoE Reg 350-19, Range and Terrain 2. FM 3-22.90, Mortars 3. DA PAM 385-63, Range Safety 4. AR 385-63, Range Safety 5. Direct Supervision	1. OIC / NCOIC 2. Range Safety Officer 3. Range Safeties	
	Mortar Miss Fires	S-C / P-S High	1. All competitors will be briefed and trained on handling and firing of the mortar rounds during "Competitors Week" training. 2. The competitors and Safety NCO announce "MISFIRE" to alert everyone on the range that there is a misfire. 3. Safety NCOs will move competitors 50 meters behind the gun and conduct misfire as outlined in FM 3-22.90, Mortars.	S-C / P-U Moderate			
	Body part not clear of the muzzle during live fire operations	S-C / P-S High	1. During live firing the Safety NCO will be positioned to physically and verbally control every action of the competitors. 2. All competitors will be briefed and trained on handling and firing of the mortar rounds during "Competitors Week" training.	S-C / P-U Moderate			
	Hearing loss	S-M / P-S Low	1. Competitors wear hearing protection. 2. Extra earplugs will be available.	S-M / P-U Low			

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?
60mm Mortar Direct Lay Handheld	Civilians/ Media	S-M / P-S Low	<ol style="list-style-type: none"> <li>All civilians and media observing will be restricted to designated areas away from the firing line.</li> <li>Designated areas for civilians and media will be clearly marked.</li> </ol>	S-M / P-U Low	<ol style="list-style-type: none"> <li>MCoE Reg 350-19, Range and Terrain</li> <li>FM 3-22.90, Mortars</li> <li>DA PAM 385-63, Range Safety</li> <li>AR 385-63, Range Safety</li> <li>Direct Supervision</li> </ol>	<ol style="list-style-type: none"> <li>OIC / NCOIC</li> <li>Range Safety Officer</li> <li>Range Safeties</li> </ol>	
	ATV / Vehicle Accidents	S-Cr / P-O High	<ol style="list-style-type: none"> <li>All drivers will be trained IAW AR 600-55 and TC 21-305-2.</li> <li>All operators will be licensed and strictly follow the BSOP ATV / Ranger SOP.</li> <li>All required Personal Protective Equipment (PPE) will be worn.</li> </ol>	S-Cr / P-S Moderate			
	Environmental Considerations (Heat Injuries, Bug / Snake Bites, Thunderstorms/ Lightning)	S-C / P-S High	<ol style="list-style-type: none"> <li>Competitors will receive a safety briefing on local hazards</li> <li>Medics and FLAs will be on site and will evacuate competitors under the direct control of the OIC.</li> <li>The 4<sup>th</sup> RTBn Hot Weather SOP will be strictly followed. (See Environmental Considerations CRMW)</li> </ol>	S-C / P-U Moderate			



# RECORD OF ENVIRONMENTAL CONSIDERATION (REC)



**Date Submitted:** 1/23/2012

**EMD Number:** 1202306

**Project#:** Unknown

**Project Title:** Malone 24 Best Ranger Competition

**Description of proposed action:**

Mortar Shoot Malone 24 Best Ranger Competition

**Project Location:**

Malone 24

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

None

**Number of Personnel:**

100

**Type of Ammunition:**

60mm HE Live

**Number/Types of Trees:**

None

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

**Duration of Action:** Start: 2/1/2012

Stop: 9/30/2012

**Proponent:** Mark May

706-544-6147

**Organization/Unit:** 4th RTB

**Number/Types of Vehicles:**

None

\*\*\*\*\*  
**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."**

\*\*\*\*\*  
**Hazardous Materials/Waste**

**Conditions:**

Dudley Carson (706 545 7570), 1/24/2012

Considerations for Field Training Exercises and Range Operations

1. 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.

2. Ensure personnel know the correct procedure for handling misfires at the range:

-Closed containers (ammunition can marked "MISFIRES") will be used for the collection of misfires at each firing range.

-The MISFIRE container will stay closed except to add or remove misfires.

-Misfires SHALL NOT BE COLLECTED in any open container or cardboard box.

All excess, unused munitions (including smoke canisters) must be returned to the Ammunition Supply Point (ASP) after the range operation is complete. Defective, misfired, or otherwise unserviceable munitions may be destroyed on the range, as part of the training exercise, in coordination with EOD.

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/MCOE Reg 350-19, dated 23 July 2010.

3. Rubbish, empty containers and other waste shall be removed from the training area after the exercise. Contact EPMB for detailed information on the proper disposal of waste products resulting from the exercise.

4. Contact POC for questions or additional guidance.

**Natural Resources - RCW**

**None**

**Michael Barron (706 544 7080), 1/24/2012**

**Noise**

**Conditions:**

Ellis Leeder ( 706 545 2400), 1/24/2012

Ear protection will be provided and worn when entering the range complex. If there is any noise complaints received, the Environmental Management Division Installation Operational Noise Monitoring Program (IONMP) and or Public Affairs Office (PAO) programs will investigate and then recommending operational noise mitigation actions to the appropriate personnel for the training actions. 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 with training operations without interfering with the proposed missions. Please follow the fly friendly program avoiding no fly zones. If any assistance or a copy of MCoE Regulation 350-19 or the IONMP noise plan is needed for review, please feel free to contact Ellis Leeder at 706.545.2400 or email ellis.p.leeder.civ@mail.mil or visit the Range Control Website for the updated version of MCoE Regulation 350-19

**CWA - Training**

**Conditions:**

Beverly Howard (706-626-0370), 1/23/2012

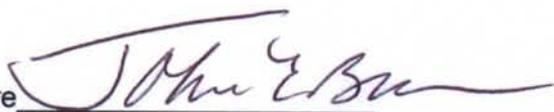
Environmental Review: Caution within training areas and motor pools should be taken to protect all nearby waterways (including perennial, intermittent streams and wetlands); as well as ground surfaces and any other sensitive areas in the vicinity of the training areas. Potential spills/releases from this activity that may occur before and/or during the FTX include: 1. Discharge and/or improper 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 stored 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 (Example Unit/Activity SOP for Training and Deployment) 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.

SPECIAL NOTE: See attached Spill Prevention DECON - Figure.doc and Example Unit/Activity SOP for Training and Deployment with recommendations during DECON training exercise.

Signature



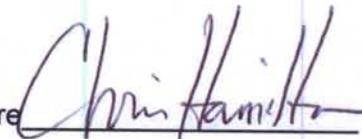
John E Brown

NEPA Program Manager

Date

26 JAN 2012

Signature



Christopher E. Hamilton, PhD

EPMB Chief

Date

26 Jan 12

## Example Unit/Activity SOP for Training and Deployment

### Introduction

This SOP is divided into two main sections: PREVENTION & RESPONSE. The following sections will assist you in planning your environmental activities while bedding down, initiating, sustaining and conducting field exercises, and/or during deployment. Before you deploy, ensure you are familiar with the following:

### What Are Hazardous Materials and Hazardous Wastes

Hazardous Materials are defined as any material that may be a health or physical hazard, or any material that, based on either chemical or physical characteristics, is capable of posing a risk to human health or the environment if improperly disposed of, handled, stored, or transported. Chemical and physical characteristics that may pose a risk to human health or the environment include, but not limited to, one of the following characteristics: Ignitable; Corrosive; Reactive and/or Toxic.

Hazardous Waste: is defined as any discarded material (solid, liquid or gas) that:

1. Has no further value and cannot be reused or recycled;
2. Is harmful to human health or the environment due to its quantity, concentration, biological, chemical or physical characteristics; and/or
3. Exhibits one or more of the characteristics as described for Hazardous Material.

Contaminated or unusable fuel is a typical hazardous material/hazardous waste common to training and deployment operations and should be handled, stored, and disposed of properly.

**Ten of the most common hazardous materials/hazardous wastes** that you will encounter during training and or deployment operations include:

- Fuel
- Engine Oil
- Bleach or DS-2
- Solvent
- Anti-Freeze
- Transmission Fluid
- Used Oil Filters or Batteries
- Empty POL Containers
- Brake Fluid
- Grease.

These materials should be handled, stored and disposed of properly.

**SPILL KITS:** Spill kits should be maintained in and around all locations where hazardous materials/hazardous wastes are stored, handled, or disposed. Various types of kits may be ordered through the U.S. Army Supply System and include: rubber gloves, safety goggles, putty, rubber mallet, wooden plugs, absorbent booms, absorbent pads, plastic bags, and in some cases, a disposal barrel.

**SPILL PREPARATION:** Despite the best prevention, you may run into difficulties and an accident may occur when you least expect it. To minimize contamination, hazards to people, and environmental damage, you must REACT immediately. To help you prepare, this SOP will tell you:

- **HOW to PLAN** and be ready to respond to a problem;
- **HOW to REACT** to a minor, intermediate or major spill; and
- **WHAT** to do after a spill occurs.

## Planning

### MINOR SPILLS

- When on the move, keep some plastic bags in your vehicle, and have your assigned On-Vehicle Equipment (OVE) ready for use.
- Maintain supplies, rags, absorbent pads, or other kinds of materials that will soak up spills on hard surfaces (like Dry Sweep), or know where you can easily obtain them.
- Keep Personal Protective Equipment (PPE) accessible (gloves, goggles, etc.).

### INTERMEDIATE & MAJOR SPILLS

In addition to the procedures above:

- Know where to go for help.
- Know where spill kits are kept and learn how to use them.

## Prevention

Vehicle Maintenance and Fueling Points, Hazardous Waste Collection Points and hazardous material Storage & Supply Areas may not be set up at your deployment destination. So PLAN to build your areas to prevent hazardous material accidents before they occur. Remember the following:

HAZARDOUS MATERIAL/HAZARDOUS WASTE AREA LOCATION - Locate hazardous material/hazardous waste areas away from living areas, bunkers, ammunition storage, fence lines and/or dining facilities. Place them near the areas where hazardous material are used.

MATERIAL SAFETY DATA SHEET (MSDS) - Keep MSDSs for each hazardous material stored or collected at hazardous material/hazardous waste areas.

UNIT/ACTIVITY ENVIRONMENTAL SOP & SPILL RESPONSE PLAN - Place SOP and Spill Response Plan at each hazardous material/hazardous waste area.

COMPATIBILITY OF MATERIALS - Store and/or dispose of each class of hazardous material/hazardous waste separately. MSDSs describe the classification of HMs. Four common classification include the following: Flammable (fuels), Corrosives (acids), Reactive (explosives), and Toxic (insecticides).

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

SECONDARY CONTAINMENT - All liquid hazardous material/hazardous waste must have secondary containment. In order for it to be effective it must:

1. Hold 10% of the total hazardous material/hazardous waste stored or 100% of the largest container.
2. Have sand and/or pallets placed in certain areas to protect the liner.
3. Have overhead cover.

You should continually keep your hazardous material/hazardous waste areas clean and orderly by applying the principals of Monitoring and Housekeeping. 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 and dispose of it as hazardous waste at the Hazardous Waste Collection Point.

### **Hazardous Material/Hazardous Waste locations:**

- \_\_\_ Make sure the locations of your hazardous material/**hazardous waste** are well chosen.
- \_\_\_ 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 hazardous material/hazardous waste areas.

See Appendix D of the ASP for specific CHECKlists for areas such as: Vehicle Fueling & Maintenance Areas; Hazardous Waste Collection Points; and Hazardous Material Supply & Storage Areas.

## **Response**

Be prepared to respond immediately to any spill situation. Keep your Environmental SOP and Spill Response Plan (SRP) readily available at the main hazardous material/hazardous waste areas. The SRP should ensure that the following measures are implemented:

- PERSONAL PROTECTIVE EQUIPMENT (PPE) - At the entrance of every hazardous material/hazardous waste area, keep a supply of PPE to protect hands, eyes, skin, ears, head, feet, and lungs. If you are unsure about which items you need, consult the MSDS for the HMs that you are using.
- MSDS - Make sure that MSDSs are available in order to REACT to spills safely and effectively.
- SPILL STATIONS - Maintain spill response equipment at a station near (not inside of) hazardous material/hazardous waste areas. They should contain: First Aid Kits, Fire Extinguishers, Spill Response Kits, and Emergency PPE.
- TRAINING - Improve your readiness by practicing the SPILL DRILL on a regular basis, and be sure to know the spill reporting process.

Respond to spills, major or minor, immediately in order to eliminate hazards that could cause personal injury and/or environmental damage. If assistance is required, or spill/release is major, immediately call 911 or the Fort Benning Military Police (MP) Desk.

**In any spill situation:**

1. **Safety First!** – Protect yourself by using PPE, including goggles, gloves, and suits. THEN...
2. Do the SPILL DRILL – **REACT**:

**REMOVE THE SOURCE:** Plug the drip or leak and stop the spill.

**ENVELOP THE SPILL:** Place absorbent booms around the spill area, or build an earthen dam, when appropriate, around the spill.

**ABSORB/ACCUMULATE:** Place appropriate absorbent material (Dry Sweep, pads, etc.) on the spill in the middle of the boomed-off area.

**CONTAINERIZE THE HAZARDOUS WASTE:** Use a shovel to place contaminated materials (including soil, booms, pads or other materials) in a plastic bag or a waste drum.

**TRANSMIT A REPORT:** If a spill is too large to handle alone, - REACT as best you can and get help!

See Appendix D of the ASP for specific REACT actions for spills involving:

- **Minor Spills** (20 gallons or less);
- **Intermediate Spills** (from 21-55 gallons); and
- **Major Spills** (more than 55 gallons), or any spill into water, where injuries occurred or where spills occurred off Fort Benning associated property.

In addition:

- Prevent hazardous material from entering storm sewers and waterways;
- Minimize impacts to vegetation and wildlife; and
- Notify proper personnel and maintain record of spill event.

**Acronyms are defined in the ASP Table of Content**

**APPENDIX H**

# **Spill Kits and Response Material Checklists**

---

**Summary Spill Kit and Response Material Checklist**

**Recommended Spill Kits for Unit/Activity Motor Pools, Aircraft Hanger Areas, and all POL Field Sites**

**Recommended Spill Kits for Fuel Carrying Vehicles**

**Recommended Spill Kits for Other Military Vehicles**

**Vehicles Transporting Hazardous Materials other than POL**

## Summary Spill Kit and Response Material Checklist

Spill Kits and Response Material	Primary Contents
<p>Spill kits should be maintained in and around all locations where hazardous material and hazardous waste are stored, handled, or disposed.</p> <p>The contents of a spill kit will vary depending on the hazardous materials and their characteristics.</p> <p>Hazardous materials other than POL will require spill kits to meet their specific requirements, (i.e., acid spill kit for Battery Shop that handles lead acid batteries).</p>	<p><b>Spill kits</b> should include as a minimum:</p> <ul style="list-style-type: none"> <li>✓ Rubber gloves,</li> <li>✓ Safety goggles,</li> <li>✓ Putty, rubber mallet,</li> <li>✓ Wooden plugs,</li> <li>✓ Absorbent booms,</li> <li>✓ Absorbent pads,</li> <li>✓ Plastic bags, and</li> <li>✓ In some cases, a disposal barrel.</li> </ul>
<p>The Unit/Activity must check the material's MSDS for specific information on PPE and spill supplies.</p>	<p>Units/activities <b>transporting hazardous materials</b> should also plan for having a minimum amount of response materials on hand.</p> <ul style="list-style-type: none"> <li>✓ Various types of kits can be ordered through the U.S Army Supply System (through the Units supply or S-4 shop);</li> <li>✓ The Unit/Activity must assess their hazardous material inventory and plan to have enough spill response material to respond to the larger container within their facility and the minimum for any specific hazardous material that require specific spill materials or PPE; and</li> <li>✓ Whenever the Unit gets to this minimum level, the user should initiate a reorder to the supply NCO or S-4 to maintain the minimum amount on-hand.</li> </ul>

**Acronyms are defined in the ASP Table of Contents**

## Recommended Spill Kits for Unit/Activity Motor Pools, Aircraft Hanger Areas, and all POL Field Sites

30-Gallon POL Boom Kit: Absorbs Approx. 40 Gallons  
Polyurethane 2 Rolls  
55-Gallon POL Kit: Absorbs Approx. 40 Gallons  
1 55 Gallon Drum  
2 Bags Absorbent  
6 Booms 2x10  
50 Absorbent Pads  
10 Heavy Duty Trash Bags

## Recommended Spill Kits for Fuel Carrying Vehicles

It's recommended that all fuel carrying vehicles should have a transportation pack spill kit or equivalent spill equipment on board at all times. The following vehicles are considered to be fuel transporting vehicles: HEMITT M971 2500 gallons, Tanker 5000 gallon, M49C 1200 gallon, Tank and Pump unit 600 gallon.

The following is a list of the minimum level of spill equipment recommended to be on hand in all fuel carrying vehicles, especially if they are traveling within the Installation or in a field exercise.

### Drip Pan

30-Gallon POL Kit: Absorbs Approx. 20 Gallons

1 30 Gallon Drum  
1 16 pound bag Absorbent  
3 Booms 2x10  
25 Absorbent Pads ~17x19  
5 Heavy Duty Trash Bags  
1 Dust Pan

## Recommended Spill Kits for Other Military Vehicles

Recommended on Vehicle Equipment (OVE) for small spills (usually from vehicle leaks):

1 drip pan  
4-5 absorbent pads  
1-2 plastic bags.

## Additional Materials or Equipment

For each one of these recommended spill kits, the following should be available:

PPE such as: Goggles and Gloves. (2-3 pairs)  
1 Shovel  
2 Labels for wastes  
1 Spill report  
1 Inventory

## Vehicles Transporting Hazardous Materials other than POL

- ✓ Transportation of hazardous materials is regulated under the Department of Transportation. Personnel transporting hazardous materials must follow all DOT requirements.
- ✓ As a preventive measurement, vehicles transporting small amounts of hazardous materials or waste should have a transportation pack spill kit or equivalent spill equipment on board to REACT in the event of an incident.

- ✓ Hazardous Materials other than POL will require spill kits to meet their specific requirements. The Unit/ Activity should check the MSDS for the materials that they transport and have appropriate amount for those particular materials.

## Spill Response Record

### PHASE I-IMMEDIATE ACTIONS FOR EVALUATING AND REPORTING SPILLS:

**IMMEDIATELY REPORT ALL SPILLS TO YOUR SUPERVISOR AND/OR CALL 911 or the Fort Benning Military Police (MP) Desk**

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

**During Duty Hours also Call Mr. Felix Seda, EMD Spill Manager at (706) 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 EMD Spill Program Manager or FAX to (706) 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: \_\_\_\_\_
14. ESTIMATED COST OF CLEAN-UP: \_\_\_\_\_
15. CORRECTIVE ACTION TAKEN OR TO BE TAKEN TO PREVENT FUTURE SIMILAR INCIDENTS: \_\_\_\_\_
16. NAME AND PHONE NUMBER OF PERSONNEL REPORTING SPILL: \_\_\_\_\_

**\*\*KEEP THIS FORM FOR A MINIMUM OF 5 YEARS**

## FORT BENNING ENVIRONMENTAL REGULATIONS SUMMARY

**RED-COCKADED WOODPECKER (RCW):** Cavity trees are identified by two white bands. Cluster boundaries extend 200 feet around each cavity tree, and are delineated by diamond-shaped signs. **WITHIN a cluster:**

- Personnel MAY NOT stay for more than 2 hours; NO BIVOUACS.
- The only digging allowed is BY HAND for hasty defense light infantry fighting positions. ALL other digging is prohibited.
- Within one half mile of a cluster, NO MECHANICAL DIGGING may be done within 20 feet of any mature pine tree (8 inch diameter or greater).
- Off-road vehicles MAY NOT come within 50' of any cavity tree.
- Use only .50cal and 7.62mm (or smaller) blank ammo; NO LIVE FIRE.
- CS gas, HC smoke, and noise generators MAY NOT be used.
- Incendiary devices (including trip flares) MAY NOT be used.
- Only hardwood may be cut for camouflage; CUT NO PINE.

**GOPHER TORTOISE:** Inhabits burrows in high sandy areas. Some burrows are marked by white 1" PVC pipe topped with reflective tape. Digging and vehicular traffic must be kept more than 50 feet away from burrows.

----- CUT HERE -----

### ENVIRONMENTAL INCIDENT REPORT FORM

For your protection, company commanders are asked to document any environmental incidents by completing this card and forwarding it to the Chief, Environmental Management Division, Building 6, Room 307, or call 545-2180, within 24 hours of incident. Check off incident and take corrective actions.

- \_\_\_ bivouacking in RCW cluster (Relocate bivouac site.)
- \_\_\_ off-road driving / parking within 50' of RCW cavity tree (Relocate.)
- \_\_\_ digging in RCW cluster [except individual hasty fighting positions] (Refill holes.)
- \_\_\_ scarring or felling of trees in RCW cluster (Contact EMD Conservation Branch through Range Control.)
- \_\_\_ digging or driving in Sensitive Area (Relocate, DO NOT refill holes.)
- \_\_\_ wildfire started (Begin suppression and contact Range Control.)
- \_\_\_ POL spill greater than 20 gallons on land or any quantity on water (Immediately contact Range Control and begin spill control - REACT.)
- \_\_\_ POL spill less than 20 gallons on land (Begin spill control - REACT; contact Range Control and submit a Spill Report Form to EMD within 24 hours.)

## 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: \_\_\_\_\_

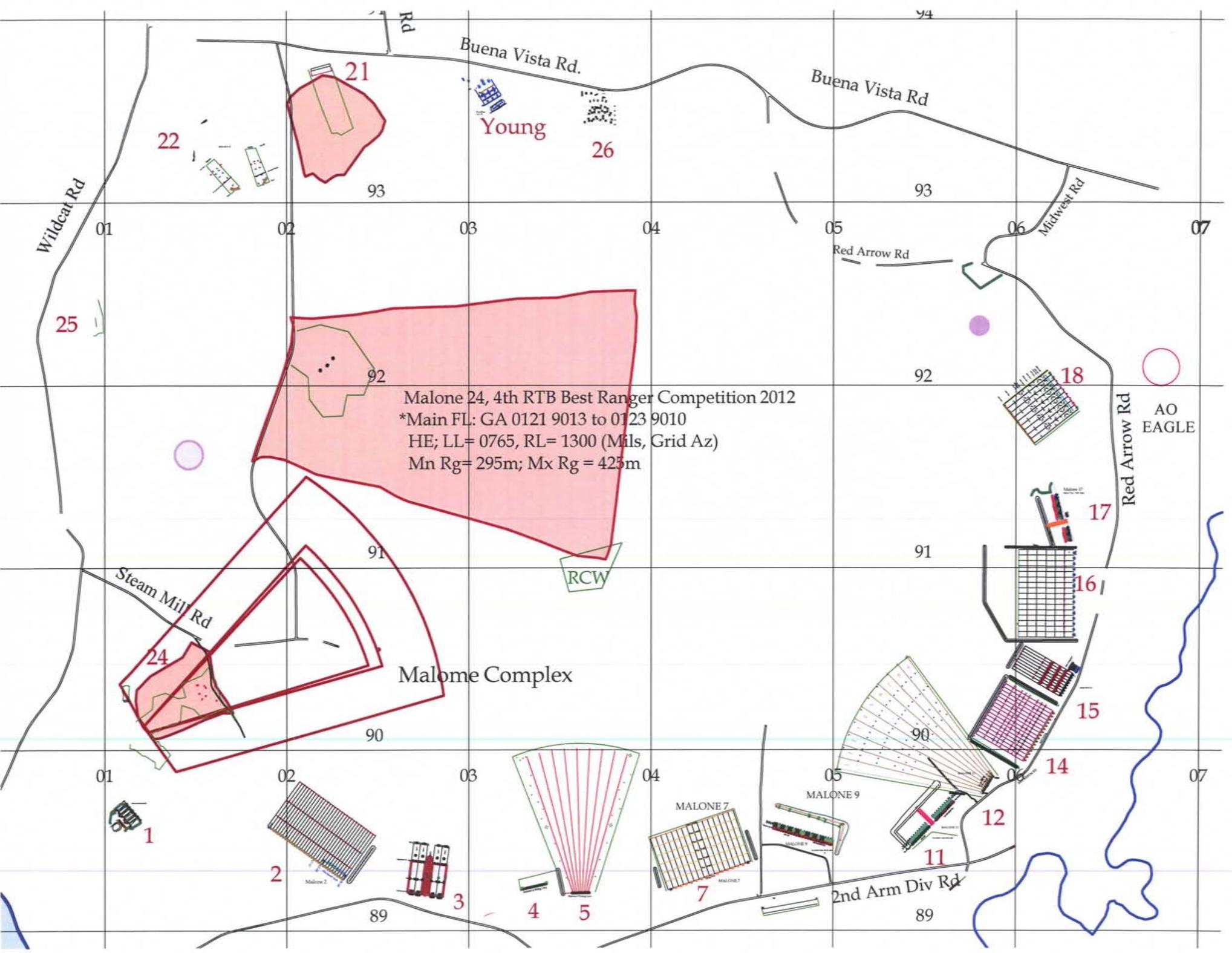
Training Area: \_\_\_\_\_

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

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

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

FB (DPW) Form 31, 1 May 2004 PREVIOUS EDITION OBSOLETE



Malome 24, 4th RTB Best Ranger Competition 2012  
 \*Main FL: GA 0121 9013 to 0123 9010  
 HE; LL= 0765, RL= 1300 (Mils, Grid Az)  
 Mn Rg= 295m; Mx Rg = 425m

AO EAGLE

Malome Complex

RCW

MALONE 7

MALONE 9

2nd Arm Div Rd

Wildcat Rd

Buena Vista Rd.

Buena Vista Rd

Midwest Rd

Red Arrow Rd

Red Arrow Rd

Steam Mill Rd

01

02

03

04

05

06

07

01

02

03

04

05

06

07

94

89

89

22

93

26

93

25

92

92

18

91

91

17

16

24

90

91

15

14

1

2

3

4

5

7

11

12

13