

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: 4 Dec 2013 Log#12-3-13
Range: Malone 24
Title: Mortar Live Fire
Problem No:

THRU: 198th In Bde
Fort Bennig, Ga. 31905

FROM: 198th In Bde
Fort Bennig, Ga. 31905

SECTION I, TYPE OF TRAINING

a. Live Fire b. Non-live Fire CP/Controller Coordinates: GA 0112 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 Mortar FL: GA 0121 9013 to GA 0123 9010	60mm Mortar	HE,WP,ILL	0765 mils	1300 mils

SECTION IV, LIVE FIRE EXERCISES Attach the following:

SECTION V, NON-LIVE FIRE TRAINING

<input checked="" type="checkbox"/> Scenario of training to be conducted:	Training area(s) to be occupied:
<input checked="" type="checkbox"/> Sketch of area:	
<input checked="" type="checkbox"/> Risk Assessment:	
<input checked="" type="checkbox"/> Attach FB Form 350-19-2-E-R if Mortar or artillery is being fired:	
<input type="checkbox"/> Scenario of training to be conducted:	Risk Assessment:
<input type="checkbox"/> Sketch of area(s) to be occupied:	
<input type="checkbox"/> Risk Assessment:	

Name/rank of requesting officer:
Crouch, Brian D. Civ


Name/rank of Major Unit S3/Commander:
Clayton, Richard J., Maj, S3, 198th In Bde


SECTION VI, FOR RANGE DIVISION USE

DATE: 24 JAN 14

TO: S3, 198th In Bde
Ft. Benning, Ga. 31905

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

a. Roadblocks to be closed:	M1, M2, M3, M5, M7, M9, M10
b. Road(s) to be closed/road barrier locations:	
c. Remarks:	
d. This approval expires:	<i>Indef</i>

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


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.

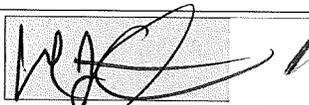
4 Dec 2013 Log#12-3-13

2. UNIT S3, 198th In Bde Ft. Benning, Ga 31905	3. TITLE Mortar live fire exercise
4. FIRING POINT NUMBER Malone 24	5. WEAPONS 60mm

6. COORDINATES
 GA0121 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 M720/720A1	0765	1300	295	425	0	1	683
HE M49A4	0765	1300	295	425	1	2	607
WP M722	0765	1300	295	425	0	1	683
WP M302A/A2	0765	1300	295	425	1	3	664
ILL M721	0765	1300	295	425	1	1	642

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

16. NAME AND RANK OF THE REQUESTING OFFICER Clayton, Richard J., Maj, S3, 198th In Bde	17. SIGNATURE  Click to Approve
18. APPROVING OFFICIAL Chief, Range Division Directorate of Plans, Training, Mobilization, and Security	19. SIGNATURE  Click to Approve



DEPARTMENT OF THE ARMY
198th Infantry Brigade
FORT BENNING, GA 31905

REPLY TO
ATTENTION OF

ATSH-TB

18 November 2013

MEMORANDUM FOR: Chief, Range Operations, DPTMS, Fort Benning, Georgia, 31905.

SUBJECT: Range Scenario for Malone 24, 11C AIT (OSUT).

1. M224, 60mm Mortar Training Phase (Live Fire Exercise), Day and Night
 - a. Cadre occupies the range to receive the training units' duty squad and initiate range preparations.
 - b. Range is opened thru range control; Range flag is hoisted.
 - c. Cadre receives ammo delivery and consolidates and organizes the ammo IAW with all applicable policies and regulations.
 - d. Students arrive, consolidate and organize in staging area vic. grid GA 0110 9013; accountability is conducted.
 - e. Students are seated in the bleachers and receive the Range Orientation/Safety Briefing.
 - f. Students receive a series of learning objectives pertaining to the 60mm mortar.
 - g. OIC calls Range Control and requests permission to go "HOT" for live fire operations.
 - h. Cadre supervises ammo breakdown and final range preparations.
 - i. Students will observe a live fire, demonstrating the employment and effects of 60mm mortar fire in the handheld mode. If ammo allotment permits, a live fire 60mm direct-lay demo will also be conducted by range cadre.
 - j. Students are divided into chalks (six firing orders) and assigned to a specified firing point with a designated firing point cadre. Chalks are further divided into teams of Gunner and Assistant Gunner. Individual firing point cadre will then run every individual (as a gun team) through dry-fire rehearsals. Firing point cadre will conduct rehearsals as long as necessary to ensure that every Soldier can safely conduct the task of firing the 60mm mortar in the hand held mode
 - k. Once all firing point chalks have completed dry-fire rehearsals the OIC and RSO will clear the firing line for live fire.

- l. 60MM Day Live Fire phase is conducted from the firing points located at GA 0121 9010 IAW current POI, FM 3-22.90, FM 3-22.91 and TM 9-1010-223-10. LFX will be conducted from approx. 0900hrs – UTC (approx. 1200hrs) IAW current POI.
 - m. Instruction and demonstration of the handling and disposal of excess propellant charges from expended rounds will be executed by cadre only MCoE Reg. 350-19, Chapter 5, para 5-9 (See photo).
 - n. Any and all misfires will be handled by range cadre upon the announcement of a “misfire”; all Students will be directed to move beyond 50 meters to the rear of the firing line.
 - o. Cadre supervises illumination ammo breakdown (hands-on learning objective) and final range preparations for night live fire.
 - p. Night live fire phase is conducted IAW current POI, FM 3-22-90, FM 3-22-91, and TM 9-1015-249-10.
2. M120/121, 120mm Mortar Crew Drill Training (static/dry)
 - a. 120mm Non-Fire Phase is conducted IAW current POI, FM 3-22.90, FM 3-22.91 and TM 9-1015-250-10. The Soldiers perform these tasks from track and ground mounted systems located at GA 0118 9005. Training will be conducted from 1300 – UTC IAW current POI.
 - b. Upon completion of training -under cadre supervision- Students will be task-organized to perform maintenance on all equipment utilized and upload the weapon tally for overnight secured storage.
 - c. Cadre supervises policing of the range and consolidation of all dunnage.
 - d. Students return to the bleachers for a recap of training and closing statements.
 - e. All troops, equipment and dunnage will be accounted for prior to the units release from Malone 24.
 - f. Range is closed through range control.
 - g. Unit will not have personnel on the 60mm, 81mm 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. ice-blankets; warming blankets, etc.)

- b. For all injuries resulting in threats to life, limb or eyesight, on-sight FLA's or 911 will be called for transport of casualty and managed by the training units Duty Drill Sergeant under supervision of range OIC.
- c. Range Control, Home and User units will be notified of any serious safety violation, incident or injury.
- d. In the event of an accident, injury, or illness, the OIC/RSO will immediately call a cease fire then call 911 using the standard 9 line MEDEVAC to determine what type of evacuation is the most appropriate for the injury (loss of life, limb, or eyesight). MEDEVAC will be IAW MCoE Regulation

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 protection
 - 7: Eye protection
 - 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.
- d. Each mortar gun team will have at least one instructor.
- 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. During 60mm Live Fire training, both the training unit Drill Sergeants and range cadre will maintain strict accountability of all Students at all times.
- i. All Composite Risk Management Worksheet concerns will be observed. Violations of any kind will be brought to the attention of the RSO, range cadre, training unit Drill Sergeants to be addressed.

- j. All fire extinguishers will be operational and in the correct locations.
 - k. All DUD's will be reported to Range Control immediately.
 - l. 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.
 - m. Communications: Unit will maintain continuous contact with Range Control at all times. If, communications are lost the unit will go into a self imposed check fire until communications are restored.
 - n. Incident: When an incident occurs on the range, regardless of injury or not, the OIC/RSO will immediately call a cease fire and report it to Range Control and the using unit's higher headquarters. OIC/RSO WILL TAKE ACTION AS DIRECTED BY Range Control. The cease fire will remain in effect until the problem is resolved and cleared through Range Control. If, the incident results in an injury, the OIC/RSO will use the procedures outlined in the medical paragraph. The following information will be furnished by the OIC/RSO to Range Control:
 - 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, SSN, Rank, and unit of injured personnel.
 - h. Extent of property damage.
 - i. Intentions regarding an AR 15-6 investigation.
6. POC for this memorandum is MAJ Richard J. Clayton, S3, 198th IN BDE at DSN 544-8021.



Richard J. Clayton
MAJ, USA
S3, 198th IN BDE

COMPOSITE RISK MANAGEMENT WORKSHEET

For use of this form, see FM 5-19; the proponent agency is TRADOC.

1. MSN/TASK Mortar Training	2a. DTG BEGIN 17 Nov 2013	2b. DTG END 17 Nov 2014	3. DATE PREPARED (YYYYMMDD) 20131117
4. PREPARED BY a. LAST NAME BURESS			
b. RANK Training Tech			
c. POSITION Assistant Operations Officer 706-544-0074			
5. SUBTASK	6. HAZARDS	7. INITIAL RISK LEVEL	8. CONTROLS
Mortar Training	Mortar misfire and hang fire	H	-Soldiers will be trained on misfire and hang fire procedures prior to the event. -Ensure that the trainees move a minimum of 50 meters behind the mortar.
	Body part not clear of muzzle	M	-Brief the trainees on the proper procedures for firing a mortar system. -Soldier will demonstrate proper hanging of round prior to livefire.
	Soldier exposed to radioactive materials	M	-Brief Soldiers of the dangers of exposure to the tritium gas (H3) sealed in the glass tubes of the M64 sight unit, and the M58/59 aiming post lights.
	Wildlife	M	- Brief Soldiers to be alert of wildlife along the route especially snakes. Brief Soldiers to avoid contact with wildlife and to not step over snakes dead or alive.
	Improper Handling of Ammunition	M	- Do not walk on, tumble, drag, throw, roll, or drop ammunition. - Do not combine WP and HE in storage. - Ensure that ammo is kept in original container.
	Ammunition Point	M	- All ammunition and charges will stored at the ammunition point. - Ammo Point will have Fire extinguisher on hand. Ammo NCO will report any discrepancy
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			
14. RISK DECISION AUTHORITY			
a. LAST NAME READ	b. RANK LTC	c. DUTY POSITION Battalion Commander	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?
Mortar Training	Round out of Impact	L	-Range personnel will ensure the proper declination of the M2 aiming post. Inspect the bore sight for the proper deflection and elevation.	L	- Safety Briefings - Supervision and oversight. - FM 3-22-90	- Range OIC - Range Safety Officer - Drill Sergeant - Soldiers	
	Round out of Impact (cont.)	L	-RSO will ensure safety "T" is placed on each firing mortar, base plates are settled. Ensure that cease fire is called, freeze all data on the mortars and contact range control.	L	- Safety Briefings - Supervision and oversight. - FM 3-22-90	- Drill Sergeant - Range Safety Officer	
	Unauthorized removal of ammunition from range	L	- Cadre will conduct a through brass and ammo check prior to leaving the range - Ammunition NCO will maintain accountability of ammunition and expenditures.	L	- Safety Briefing - Unit SOP - Command Oversight	- All Cadre - Ammunition NCO	
	Weather and Changing Conditions during Training	M	- Company Commander will adjust his daily risk management worksheet as conditions change ie weather (Storms, hot, cold), range malfunctions, cadre availability, etc.	L	- Command Oversight - Conduct Daily Risk assessment	- Company Commander	
	Eye/Hearing Loss or Injury	M	- Soldiers will wear ballistic eyewear and wear hearing protection while conducting training scenarios. Protective earmuffs for 120mm Livefire (for double hearing protection).	L	- Safety Briefings - Supervision and oversight. - FM 3-22-90	- Drill Sergeant - Range Safety Officer	

MALONE 24 198th BDE IN Mortar Training (Log #12-3-13) Roadblocks 10 Dec 2013

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



Target Area

Malone 24

60mm, 81mm Non
Firing Training

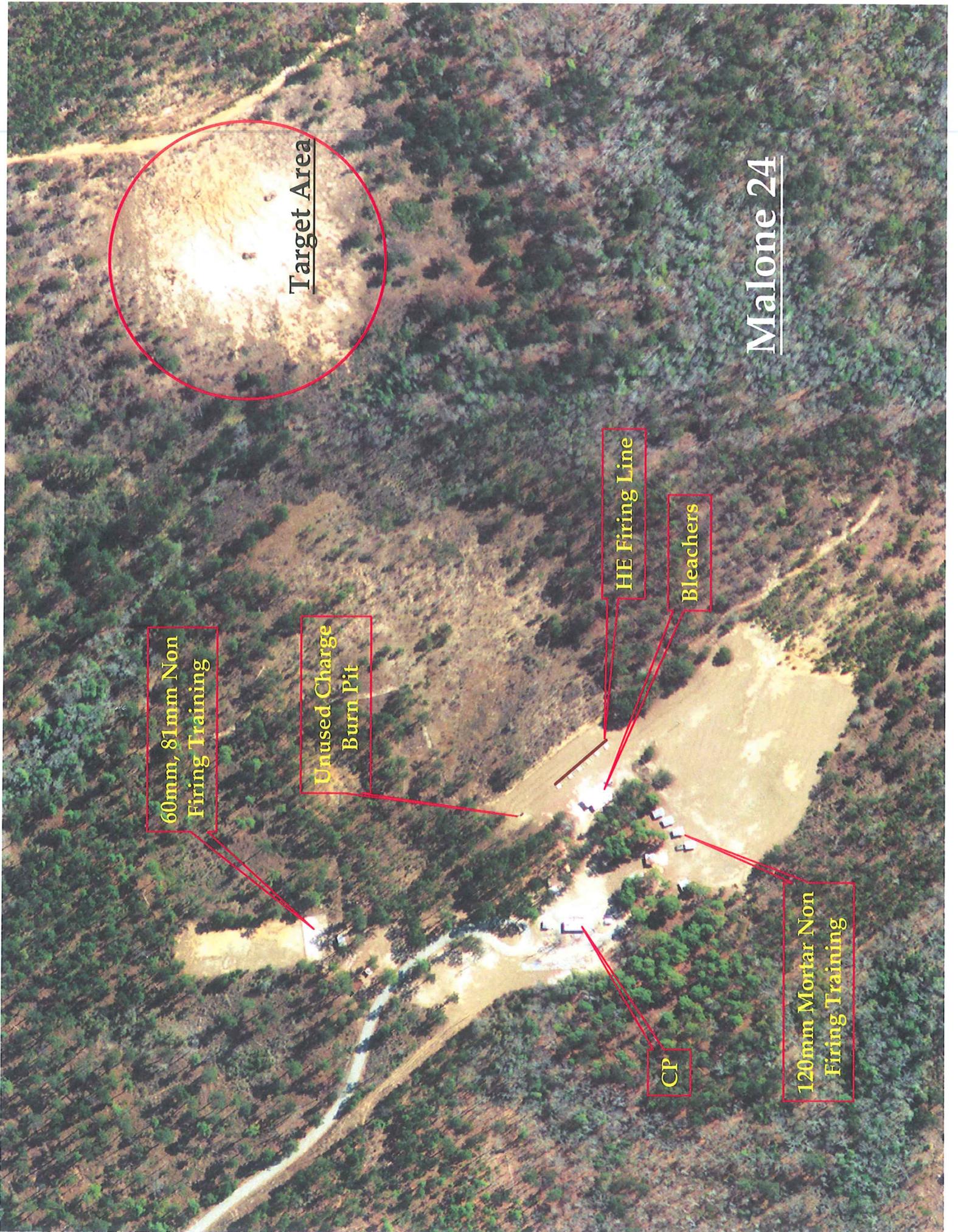
Unused Charge
Burn Pit

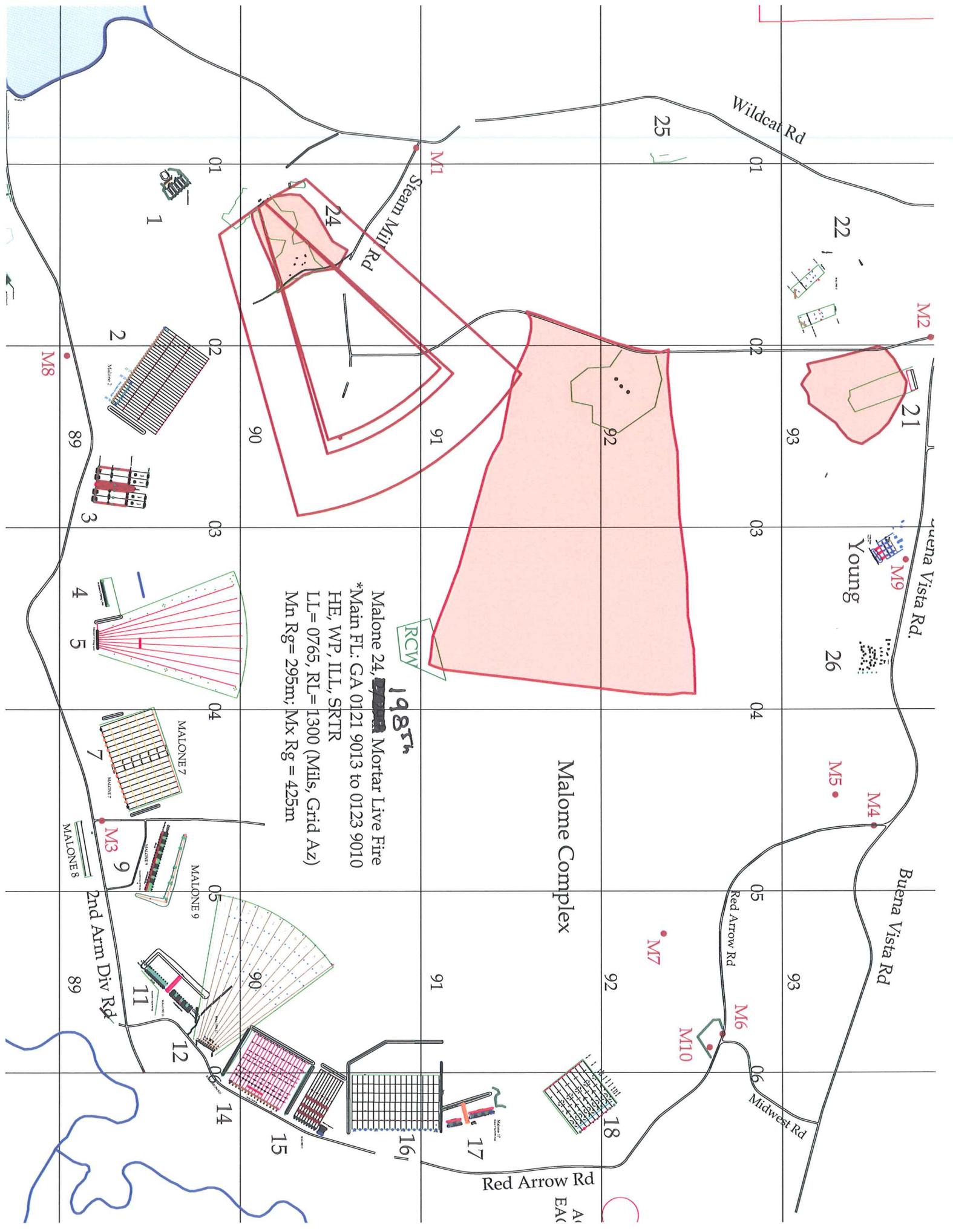
HE Firing Line

Bleachers

CP

120mm Mortar Non
Firing Training





Malone 24, ~~██████████~~ Mortar Live Fire
 *Main FL: GA 0121 9013 to 0123 9010
 HE, WP, ILL, SRTTR
 LI = 0765, RL = 1300 (Mils, Grid Az)
 Mn Rg = 295m; Mx Rg = 425m

198th RCW

Malome Complex

Buena Vista Rd

Red Arrow Rd

Wildcat Rd

2nd Arm Div Rd

Young

A
EAC