Appendix K.1

After Action Report for the Surface UXE/OEW and Ordinance Debris Removal at Woodbine, Georgia Union Carbide Facility

Law Environmental, Inc / EOD Technology, Inc

November 1992

77 Pages



111 Robertsville Road Oak Ridge, Tennessee 37830 (615) 483-0007 or (615) 483-4251 FAX (615) 481-0653

Called Guy about changes

November 18, 1992

Mr. Matt Ligon Law Envirinmental, Inc. 112 Townpark Drive Kennesaw, Georgia 30144

Subject:

Submission of After Action Report for UXO Support

Services, Former Union Carbide, Woodbine, Georgia

Dear Mr. Ligon:

Enclosed please find the EOD Technology, Inc. After Action Report for the subject project, per our subcontract requirements. Should you have any questions or comments, please contact either myself or Mr. John Stine at (615) 483-0007 at your earliest convenience.

I would like to express our thanks to the Law Environmental Field Team for their professionalism and efficiency. They were a pleasure to work with, and we look forward to an opportunity to work with Law Environmental again in the future.

Sincerely,

C.M. Read

Operations Director

AFTER ACTION REPORT

FOR THE

SURFACE UXO/OEW AND ORDNANCE DEBRIS REMOVAL

 \mathbf{AT}

WOODBINE, GEORGIA

UNION CARBIDE FACILITY

LAW PROJECT NUMBER 41-2590

Prepared For:

Law Environmental, Inc. Kennesaw, Georgia

Prepared By:

EOD Technology, Inc. Oak Ridge, Tennessee

November 1992

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1.0 INTRODUCTION

EOD Technology, Inc. (EODT) was contracted by Law Environmental, Inc., 112 Townpark Drive, Kennesaw, Georgia, to provide Unexploded Ordnance/Ordnance Explosive Waste (UXO/OEW) Services and Surface Remediation of the Former Union Carbide Plant, Woodbine, Georgia, Solid Waste Management Units (SWMUs). These services included downhole monitoring during soil boring activities in SMWUs #3, #6, and #7 and ordnance debris monitoring during excavation of observation trenches in SWMUs #3 and #6. In addition EODT personnel were task to remove and dispose of surface ordnance and debris in SWMUs #3 and #7. EODT supplied all labor, supplies, tools, and equipment required in the performance of describe responsibilities.

1.1 General Information

Union Carbide formerly operated an agricultural chemical formulation and manufacturing plant at what is now the Rhone-Polenc Plant located in Camden County southeast, Georgia. The property is located approximately 12 miles east of Woodbine, Georgia, and approximately 15 miles north of the Florida/Georgia state border. In 1986, Union Carbide sold its agricultural subsidiary to Rhone-Poulenc which included the formulating and manufacturing operations at the Woodbine Facility. However, approximately 2,965 acres of SWMUs were retained by Union Carbide. On September 20, 1992, EODT mobilized six (6) personnel in support of the required UXO/OEW Support Services. These six personnel supported the UXO/OEW portion of the project through October 7, 1992. On October 8, 1992, one individual was demobilized. From October 8 through October 16, 1992, work continued with five (5) EODT personnel. On October 17, 1992, two additional EODT personnel were released to demobilize on October 18, 1992. The remaining three (3) EODT personnel conducted disposal operation through October 21, 1992. Upon completion of the disposal operation EODT personnel, as directed by Law Environmental, Inc., accomplished demobilization on October 22, 1992.

1.2 Right of Entry Permits

Right of Entry permits were not required to be obtained by EODT personnel. The right of entry was obtained by Mr. Walter M. Ligon, Project Manager (Law Environmental, Inc.) and briefed to EODT personnel during the project in-brief conducted by Mr. Ligon on September 21, 1992, prior to entering the Former Union Carbide Facility.

1.3 Public Relations

Public Relations were the responsibility of Law Environmental, Inc. EODT personnel were not evolved establishing or conducting official public relations.

1.4 News Media

News media coverage was not the responsibility of EODT personnel. EODT conducted no news media or news releases associated with this project.

2.0 OPERATIONS

2.1 Mobilization

Six EODT personnel mobilized to the Former Union Carbide Plant on September 20, 1992, in support of UXO/OEW services. The team consisted of an EOD Site Supervisor, EOD Site Health and Safety Officer (SSHO), EOD Team Leader, and a cadre of three (3) EOD Technicians. Work commenced on September 21, 1992. The following EODT personnel were assigned to the site with respect to the dates listed:

Position	Name	Period Worked
Site Supervisor	John Stine	9/20/92 - 10/8/92
Health and Safety Officer	Mark Barrett	9/20/92 - 10/21/92
Team Leader	Billy Francis	9/20/92 - 10/8/92
EOD Technician	David Becker	9/20/92 - 10/16/92
EOD Technician	Glenn Zimmerman	9/20/92 - 10/16/92
EOD Technician	Kim Bellhorn	9/20/92 - 10/21/92
Site Supervisor	Billy Francis	10/9/92 - 10/21/92

2.2 Key Personnel

Law Environmental, Inc. Project Manager Mr. Walter M. Ligon and EODT Site Supervisor, Mr. John Stine arrived on site at approximately 7:45 AM on September 21, 1992 at which time Mr. Ligon performed a site briefing and highlighted duties, responsibilities, security procedures, site entrance and exit procedures and the overall view of project goals.

2.3 Subsurface UXO/OEW Clearance Operations

The contract agreement between EODT and Law Environmental, Inc. requested no subsurface clearance agreements. EODT did not perform any subsurface clearance activities.

2.4 Surface UXO/OEW Clearance Operations

Surface clearance operations were conducted in SWMUs 3, 5, 6, and 7. All ordnance items were located in SWMUs 3 and 7 with no ordnance located in SWMUs 5 ad 6.

2.4.1 Site Preparation

Prior to commencing ordnance clearance operations a work center was established adjacent to SWMU 3 in an abandoned concrete hardened storage bunker. All tools and equipment required to support clearance operations were arranged and stored at this location. This bunker was used through out the project as the work center. Also in the SWMU 3 area a small munitions storage bunker was cleaned and prepared for future storage of recovered hazardous ordnance items and potentially hazardous ordnance debris.

2.4.2 Solid Waste Management Unit Number 3

SWMU 3 consist of an approximate two acres site located east, north, and south of Union Carbide Production Well Number 3. Surface and subsurface disposal activities occurred from 1967 through 1976. To facilitate the surface clearance, a close interval sweep line utilizing six (6) EODT personnel was established. Due to the extremely heavy brush in SWMU 3, sessile line could not be used to maintain sweep line integrity. White marker flags were used to mark the sweep path as the team moved from east to west, maintaining a close interval sweep formation, 6-8 feet between personnel. Three complete sweeps of the area were conducted alternating sweep path and direction of sweep. This was necessary to insure all ordnance items were recovered from the dense under brush and heavy ground cover.

Once clearance operations began, 2 each, 40 millimeter (mm) launcher fired, high explosive, expended grenades were encountered. Upon further investigation and interview with Former Union Carbide personnel it was determined that a special lot of 40mm, M-406 High Explosive Grenades were procured from the Department of Defense (DOD) and fired to establish required test velocity for the 40 millimeter CS Grenades being developed by Union Carbide for DOD. The 40mm, M-406 grenades encountered were marked with white stenciled letters "Inert Filler/Inert Fuze" with the grenade bodies painted blue which normally indicates a practice/inert filled round. The ogives were gold in color indicating a high explosive round. Normally the rounds would be considered inert filled and would present no imminent danger. Due to the combination of circumstances ie; the recovery of two exploded rounds of the same type, those rounds being produced for a special test project, the gold ogive installed indicating a high explosive filler, and no available shipping documents to substantiate the type filler loaded in the rounds, all M-406s were considered as high explosive rounds and treated as such. Once this determination was made all 40mm, M-406 grenades were explosively opened using the 1200 Dearmer Kit which allowed for positive identification of fuze or filler associated with each round. Once procedures were completed to "safe" the rounds, they were segregated and placed in the explosive storage bunker awaiting disposal.

The following ordnance items were encountered, cleared and disposed of:

ORDNANCE ENCOUNTERED
M-406, 40mm Grenades
40mm CS Grenades
XM15 CS Canisters
Ordnance Associated Debris

2.4.3 Solid Waste Management Unit Number 5

SWMU 5 consist of an area of less than 200 square feet located east of the intersection of Loop Road and the north/south roadway to the on site air strip. The area was reportedly used for a "one time" subsurface disposal actively which occurred in 1973. The material disposed of was less than 1000 pounds of aldicarb oxime. No ordnance disposal activities were reported in SWMU 5. A two man EOD Team perform a close interval surface clearance of the area. No ordnance items or ordnance debris were encountered.

2.4.4 Solid Waste Management Unit Number 6

SWMU 6 consist of approximately 1.5 acres located approximately 2000 feet north of the main plant entrance gate. Unknown quantities of gypsum granules, corn cob grit, aldicarb and orthochlorobenzalononnitile were disposed of in this area. No ordnance disposal activities were reported in SWMU 5. A five man EOD Team conducted a close interval surface clearance of the area. No ordnance items or ordnance debris were encountered.

2.4.5 Solid Waste Management Unit Number 7

SWMU 7 consist of two areas. The area located on the east side of the road leading to Floyd Cemetery is approximately .52 acres while the area on the west side of the road leading to Floyd Cemetery is approximately .25 acres. Subsurface disposal of drums containing 25,000 pounds of M-49 Trip Flares, approximately 12,000 ponds of orthochlorobenzalmalononnitrile, unknown quantities of fill dirt, unknown quantities of various ordnance items and unknown quantities of CS were disposed of or buried at these two locations. During the clearance of SWMU 7 EODT personnel were also providing support to the Law Environmental ground water monitoring installation crew. This resulted in varied numbers of EODT personnel available to support SWMU 7 on a day to day basis. Available personnel ranged from three to six personnel. Clearance operations of these areas were conducted using close interval sweep techniques. These areas contained a large quantity of ordnance debris. Due to the large amount of debris the most effective means to sweep and clear these areas was on hands and knees with the intervals reduced to three (3) feet. The sweep was conducted from south to north with the Quality Assurance check completed from west to east. All hazardous items were segregated and stored in the

explosive storage bunker awaiting disposal.

The following ordnance items were encountered, cleared and disposed of:

ORDNANCE ENCOUNTERED, CLEARED AND DISPOSED	
M-84 Powder Train Time Fuse	
M-84 Powder Train Time Fuse Components	
M-49 Trip Flares	
M-71A2 Primers	
40mm CS Grenades	
XM-15 CS Canisters	

2.5 On Site Training

2.5.1 Initial Site Training

On September 21, 1992 Mark Barrett, Site Safety and Health Officer (SSHO) EOD Technology, Inc. (EODT), conducted four hours of required site training. The training consisted of the following topics outlined in the Site Specific Safety and Health Plan:

TRAINING TOPICS
Project Objectives
UXO/OEW Briefing
Personnel Protective Equipment/Decontamination Procedures
Emergency Response Procedures

Additionally, general site safety procedures were briefed to all EODT personnel and Mr. Walter M. Ligon, Project Manager (Law Environmental, Inc.). After the training was conducted by Mark Barrett (EODT), all site personnel received a briefing on the chemical Temik by Mr. Joe Wimberly, Shift Supervisor, Rhone Poulenc.

2.5.2 Team Training

On site ordnance training was conducted throughout the entire project whenever a new ordnance item/component was recovered. All ordnance training was conducted by Mr. Barrett, SSHO. Ordnance training included the following items:

ORDNANCE TRAINING	
M301 Series Illumination Mortar/Associated Components	
M84 Powder Train Time Fuze	
M71A2 Primers	
M49 Trip Flare	
XM651 40mm CS Grenade	
XM15 CS Canister	

2.5.3 Visitors Training

All site visitors were trained on associated hazards and safety procedures prior to entering work areas, as well as being escorted by the *EODT* Site Supervisor or SSHO.

2.5.4 Tailgate Safety Briefings

Tailgate Safety Briefings were conducted daily prior to commencement of work. Topics discussed were UXO safety, biological hazards, vehicle safety, emergency response procedures, and explosive safety. Also discussed were transportation of, explosive/UXO/OEW, demolition/burn operations, explosive tool procedures (EODT 1200 Dearmer), chemical hazards (CS, Temik), and physical hazards/associated with the work areas.

2.6 Equipment

EODT provided all necessary equipment, consumables and tools required in performance of this contract.

Primary equipment used is shown in table below:

EQUIPMENT LIST FOR WOODBINE	
Site Vehicle - Pick Up Truck	
Site Vehicle - Mid- Size Car	
MG-220 Gradiometer	
GA-72 CV Magnetometer	
GA-52B Magnetometer	
EODT 1200 Dearmer	
Standard Hand Tools	

2.7 Daily Activity/Weather/Terrain

EODT personnel's daily activities were logged throughout the entire project by the Site Supervisor and SSHO and began each morning with the Tailgate Safety Briefing. Weather throughout the thirty-one (31) days remained sunny and humid with temperatures ranging between 70° to 80°F. The only exception to the favorable weather was during the first week of operations when approximately 8.5 inches of rain fell causing flooding in SWMU 7. The terrain ranged from low level swampland in SWMU 7 to dense underbrush in SWMU 3.

2.8 Disposal Operations

Disposal operations began on the morning of October 15, 1992. The 193 M406 grenades scheduled for disposal were divided into 11 shots consisting of sixteen (16) grenades each with the final shot consisting of seventeen (17) grenades. Eight (8) disposal shots were performed October 15 with the following four (4) being performed October 16, 1992.

Burning operations were conducted from October 19 through October 20, 1992. The burns were set up and initiated at 1330 hrs on both days as requested by Mr. Dave Cunningham, Environmental Manager, Rhone-Poulenc. The following ordnance items were disposed of by burning on October 19, 1992: 8 each, M301 Illumination Mortars; 906 each, M84 Powder Train Time Fuzes; 200 each, M49 Trip Flares. The following items were disposed of by burning on October 20, 1992: 347 each, M71A2 Primers; 57 each, XM15 CS Canisters; 260 each, and 40MM CS Grenades. Prior to the preparation of the second burn and relinquishing custody of the burned scrap, each individual items was checked and verified to ensure all hazardous residue was completely burned and presented no further hazard.

Final disposition for all ordnance related scrap was the responsibility of Law Environmental, Inc.

3.0 QUALITY CONTROL

3.1 Surface Site Quality Control

The final Quality Assurance (QA) sweep was performed by Matt Ligon, Program Manager, and John Stine, Site Supervisor, on September 29, 1992. Three (3) previous sweeps had been made by *EODT* personnel. It was necessary to performed cross-sectional sweeps because of the terrain, underbrush and amount of the UXO previously encountered throughout this area. The final QA resulted in zero ordnance items found. The final QA of SWMU's 5 and 6 were performed by Mark Barrett, SSHO, on September 29, 1992, resulting in zero ordnance items recovered.

Albert Sacchetta, Staff Engineer, Law Environmental, Inc., and Mark Barrett, SSHO, performed the final QA of SWMU 7 on October 13, 1992, also resulting in zero ordnance items found.

4.0 SITE SAFETY

Safety was, and always will be, the prime consideration for every project. All sites were equipped with the appropriate number of First aid kits, eye wash kits, and correct level of Personal Protective Equipment (PPE). In addition to the daily Tailgate Safety Briefings all local emergency telephones numbers were posted in plain view in the staging area bunker. In addition, quick reference emergency contact cards were placed inside the glove compartment of each site vehicle. Emergency response routes to the paramedic station located within the confines of the Rhone-Polenc facility, were also located in the glove compartment of each site vehicle. During the transportation of explosives and UXO/OEW guidelines mandated by DOT 49 CFR 100-199 were strictly adhered to.

4.1 Tailgate Safety Briefing

Tailgate Safety Briefings were conducted daily, prior to the commencement of daily operations. Topics discussed were UXO safety, biological hazards, vehicle safety, emergency response procedures, explosive safety to include transport of explosives, demolition/burn operations, explosive tool procedures (EODT 1200 Dearmer), chemical hazards (CS, Temik), and physical hazards.

4.2 Safety Violations

EODT's unblemished safety record continued throughout this project. No safety violations, injuries or accident/incidents occurred during the performance of this contract.

4.3 Safety Training

All suspected UXO/OEW and toxic chemicals were thoroughly briefed during the initial four (4) hour training class. Reoccurring training continued throughout the project. Known hazards,

associated with UXO/OEW encountered, as well as additional training classes were conducted whenever a new ordnance item was recovered. This training was given in conjunction with the daily Tailgate Safety Briefing.

All visitors received the Explosive Ordnance Recognition and Safety briefing in conjunction with the Toxic Chemical briefing prior to being escorted into the work area(s) by the Site Supervisor or SSHO.

5.0 ORDNANCE ACCOUNTABILITY RECORD

5.1 Numerous UXO/OEW items were located and cleared by *EODT* personnel. A specific list of items recovered is located in Section 9.0 of this document.

6.0 DEMOBILIZATION

John Stine (*EODT*) was demobilized on October 8, 1992, two additional (*EODT*) personnel were demobilized on October 16, 1992 and the three remaining (*EODT*) personnel were demobilized on October 21, 1992.

7.0 MANHOURS AND MILEAGE DATA

7.1 Total Manhours

The total manhours expended for this project, by EODT personnel, was 931.5 hours. The following is a breakdown of the total hours:

Site Personnel: 908.5 hours
Project Manager: 13 Hours
Secretary: 10 Hours

7.2 Total Mileage

The total number of cumulative miles for this project was 8,620 miles.

7.3 Total Airfare

The total amount of funds expended in airfare for this project totaled \$956.00.

8.0 TOTAL ITEMS DESTROYED

The following ordnance items were recovered and destroyed by burning:

M-301 Series Illuminating Mortars	8
M-84 Powder Train Time Fuze Components	906
M-49 Trip Flares	200
M71A2 Primers	347
XM15 CS Canisters	57
40mm CS Grenades	<u>260</u>

Total Ordnance Destroyed By Burning 1,778

The following ordnance item was destroyed by detonation:

M409 - 40mm rounds 193

Total Ordnance Destroyed By Detonation 193

Total Ordnance Destroyed 1,971

9.0 PROBLEM AREAS AND RECOMMENDATIONS

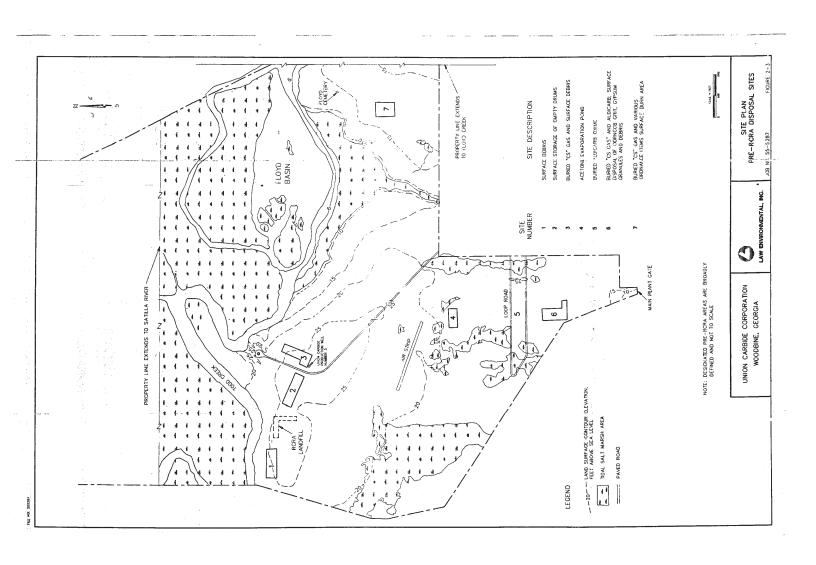
9.1 Problem: The 40mm, M-406 Grenades encountered in SWMU 3 were unique as compared with the standard military issue grenade. Due to time limitations caused by difficult weather conditions on the day of the Initial Site Visit a through background and site investigation of SWMU 3 could not be conducted. Once the EODT team arrived on site and upon further investigation and interview with Former Union Carbide personnel it was determined that a special lot of 40mm, M-406 High Explosive Grenades were procured from the Department of Defense (DOD) and fired to establish required test velocity for the 40 millimeter CS Grenades being developed by Union Carbide for DOD. The 40mm, M-406 grenades encountered were marked with white stenciled letters "Inert Filler/Inert Fuze" with the grenade bodies painted blue which normally indicates a practice/inert filled round. The ogives were gold in color indicating a high explosive round. Normally the rounds would be considered inert filled and would present no imminent danger. Due to the combination of circumstances ie; the recovery of two exploded rounds, of the same type containing high explosive residue, those rounds being produced for a special test project, the gold ogive installed indicating a high explosive filler, and no available shipping documents to substantiate the type filler loaded in the rounds, all M-406s were considered as high explosive rounds and treated as such. Once this determination was made all 40mm, M-406 grenades were dynamically opened using the 1200 Dearmer Kit which allowed for positive identification of fuze or filler associated with each round. Due to the circumstances involved, additional time was required to properly clear SWMU 3.

Recommendation: For future Initial Site Visits, a contingency plan should be considered which covers the need for additional time on site due to uncontrollable circumstances such as weather, airline scheduling/late departures and any other complications that may arise.

9.2 Problem: Although SWMU 3 and SWMU 7 were surface cleared of all visible UXO/OEW and ordnance related debris, the area is saturated to the point that any disturbance of the ground cover may reveal additional UXO/OEW and ordnance debris. The heavy ground matting of SWMU 3 has covered many items of ordnance which may resurface. SWMU 7 is highly saturated with "live" UXO, ordnance components, and ordnance debris. Heavy rains and soil erosion in these areas will expose additional items.

Recommendation: Perform a complete surface/subsurface UXO/OEW clearance of these areas. This would eliminate future exposure of UXO/OEW and any ordnance related debris.

ATTACHMENT 1 SITE MAP



ATTACHMENT 2 RELEASE OF LIABILITY

LAW ENVIRONMENTAL, Inc. 112 TOWNPARK DRIVE KENNESAW, GEORGIA 30144-5599

OCT 21, 1992

SUBJECT: TRANSFER OF L'ABILITY FOR ALL UNEXPLOPED ORDINANCE - RELIATED SCRAP RECOURSED AT FORMER UNION CARBIDE PLANT, WOODBINE, GEORGIA.

PUVSUANT TO THE CONTRACTUAL AGREENEUT BETWEEN LAW Environmental, Inc. AND EDP TECHNOLOGY . INC. I hearby transfer all liability to Mr. Albert S. Sacchetta, LAW Environental, Inc. Representative, for ALL ordnorce-related Scrap recovered from solid waste nanogement Units (SWINU) #3,5,6,7 on the date stated Above.

MARK A. BOVVOLT safety and Herical Officien

BOD TECHNOLOGY, INC.

I hearby assure liability for the final disposition For All ordrance - related scrop recovered from Sww : 3,5,6,7 on this date of October 21, 1992.

albert S. Sacchitta

Albert S. Sacdrelta

STAFF ENGINEER

UAW ENVIRONMENTAL, INC.

Belly Triance whoess: Billy J. Froncis

STE Supervisor

600 betwacey pro.

ATTACHMENT 3

DAILY SITE LOG

FORMER UNION CARBID PLANT WOODBINE GA. JOB# 2642-1 940F/ Sunny ip SET. 2 1) all personnel arrive Ramada Inn by 1756. Intro brief completed. 2) Personnel complete mobilization / travel paperunk. 3) Personnel available for work are: JOHN STINE SDAYID BECKER MARK BARRET GLENN ZIMMERMAN BILLY FRANCIS KIM BELLHORN 4) J. STINE, M. BARRETT & B. FRANCIS proceed by Por to sick-up untal vehicles! Vehicles have full comage (100%) insurance at a change of an additional \$199. Der month per vehicle. Total vehicle charge per month @ \$1,556. 5) additional Pol mileage incurred for _ 4. pick-up of G. FIMMERMAN at Jacksonville, Il. airport by M. Barrett. additional POV mileage incursed by J. Stine for pick-up of rental vehicles. a) Petty cash expenditure of \$68.84 for below listed items: 100-5 GAL WATER CONTAINER @ 5.86 00 200- IGLOO WATER COOLERS @ 16. 94 ca. 1 bx - 36 GAL. TRASH BAGS @ 2.97 ca. 2 ca - 1,500 16. TIE DOWN STRAPS @ 8. Ca. 3 ea - COMPOSITION NOTEBOOKS @ 1. 18 ea 1 ea - INSECT / TICK REPELLANT @ 2. ea GA. SALES TAX @ 3.28 Petty cash fund starting - 150.00 Petty cash remaining - 81.16 7) Reported arrival of team to M. Ligor and arranged meeting location

88°F- Sunny 21 Spt. 92 1) Team load out and depart Ramada In Kengsland. 2) arrive. Union Carbiole 0745 and next with Matt Ligin and Dave Currington (Elino Carlide Safety builing conducted. Complete at 6918. 4) Lite tour conducted, complete at 1118. all auas visited (5 MMU 3, 5, 6, 7) 5) at 1/36 Me. Weatherly conducted an aldicarb briefing for all EDDT! Law personnel. used as control center 7) after review of site and discussion of hazards with Mr. M. Ligar, site PPE was reduced from level "" to level "D" except for drilling operations 8) Sweep of area 5WMV #3 began. 9) M 406, 40 mm grenades encounter. Has gold O-give with blue body with Dunny Je stenciled and body. Will be treated as live. antil determined otherwise 16) Lead in area, grassy meadow completes 11) Team elected to work through line depart at 1566 12) Outbrief completed : Lea. 24" chair to secure ops of Lea. 24" chair to secure ordinare Lea portapoly Il cope, yellow Lea exclusion area sign/hazardous explosives /ea. work area sign 14) Requested Porta-Potty for site and a work station (table : chair)

2) Safety / Tailgate bushing complete at \$72\$.

3) Work begins at area-Swmv#3 - Team brains

clearance of surface ordance and ordinance related

Alexa" has beary surface ordance ordinance related

Area" has beary surface ordance ordinance debie.

4) Request 17H storage containers for ordinance debie.

Salvaged plastic 55 gallor drum for ordinance

celated debies. Live ordinace stored in Bunkar #2 in non-sparking containers.

5) Requested a porta-pot for the 2cd day
in a row. Slow response to requests for porta-pot.

Their item must be available in order to meet. minimum OSHA Standards. area still requires exclusion area signs. M. Barrett making. 6) Gew breaks for lunch at 1266. 7) Grew returns to area 5wmv #3 8) 103 M-406 marked for disrupter. All M-406 recovered with agive missing have dummy fuger enstabled. HE worked still into and. All M-406 which have give installed will be considered be live and armed. 9) 6\$75 of SWMU 3 cleared of ordnance debris. 164 M-406 40 MM flagged for disposal.

4 lept 2 1) Tailgate safety brifing complete after team 2) Stal drans for storage have no Estimated arisind by end of wak, maybe somer.

3) Steel slugs are not retaining shape when
fired into M406 Juge. Stearing is being
accomplished. Called Jock and informed him
of problem. Regrested an additional dearmer. 4) Requested additional slugs be sent, Nas siformed by fock that enough slugs were not available. Will work the problem. 5) M. Bauett suggested using wooden slugs to remove ogive to determine type fuging. Nel alterpl tommosow (25 Sept. 92) This procedure 6) Will need to buy wooden dowls. 7) Continued operations with steel sluge 8) 4 shots completed with stal slugs 9) Should move operation to span #7 10) Will continue dearner operation and split crew members to area swmv #7 for set-up. 11) Have meeting set up with boal Probate Count to insure compliance with GA. egulations for disposal by detonation. 12) M. Ligion (Law) informed of duty lowers
I Supervisor. Ik wents 5/Super available for
papercias after hours. Ik I few hours of
I don't mind, but 2-4-per night won't be

83°F/Overcast w/light rain

Sept 25, 92 1) Team arrives at 0700. Tailpate safety luging complete.

2) Team will work 5wmv #3

3) Metal lands ugnested as for the day. 4) Delia on ana 7 is 5) all containment banks used. Noty Ligion of setuation druns for delis from SWMU # J. Until plywood. M. Ligio advised of pro time envolved is not a conciderate 8) Let up appoint with probate concerning county permits for blaste (Carden County) would find no rest Roblem developing will Dave Cummaham (Plone - Poulerc). deid fuel will be allowed. Will check with EPD Reginonal. 10) Crew outhrighed

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lat.	i) Off for the day - Saturday -		
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27 Sept. 92 1) Off day - Sunday -

790/ avercast Ocassional Rain 28 dept. 1) Team safety but conducted. 2) Team completing area 3. I hould be ready for QA of area#3.

3) Located 55 gal. Sum on site for scap storage Request storage containers from M. Ligir (Law). He stated they would are Mens of Thirday. I crop currently being p on slywood. M. Legin infrared of double. 4) ana #3 QA to be constited 29 lept. 92 5) Prolate court Judge not available today. Let up meeting for 1430, 29 Sept. 92 6) M. Ligin refrested a nunimum of 3 people at 5 WMV # 3 when work in progress. I informed him our requirements are 2 people. He requested 3. Complide with request. Team taking 12 hour hour for. SWAU #1 exclusion area : contan 9) fleed to change warning sign at SWMU#3 ordnance strage area. Fear debut at 1520. 11) Team secures for the day.

10 76°F/ Overcast whight rain 29 Sept. 92 1) Tailgate safety linging complete after team 301 2) Dulling team delayed arrival until 30 Sept. 3) Team working QA in area SWMU #3. Each sweep results in more rounds recovered Leaves and undulruch have covered many ordrance etems. M. Ligen briefed of problem. Locations ordnance depends on the angle the ordnance is viewed from Piscussion with M. Ligin usults in a third sweep of SWMU#3. Team sweeping at 5 close interval sweep. Team concentrating on areas the HAZMAT team will be unking 4) SWMU# Cross section sweep completed M. Ligin advised to have HATMAT team be sware of ordnance when moving obbis. M. Ligin heefed that without a subsurface sweep, due to heavy leaf cover of facest floor we would not garrette no ordnace would be encountered by HAZMAT tean once they wandered away from cleared gones 5) Two man team detailed to swmv #5 to conduct ordnance clearance. 3 more team members dispatched once work in 3WMU #3 completed Sweep of SWMU#5 complete. Team dispatched Swmv #6. To ordnance debis encountered in 7) Team encounters no ordnance or ordnance debris encountered in SWMU#6 8) Delrief complete, team departs at 1530.

75°F- Quecast	
! 1) Team arrives worksite at \$700.	<u> </u>
2) Isfety briefing complete	
3) Team will work SWMU # 7	
4) SWMU#7 boundier established from data	
supplied by former Union Carbide personnel	
who worked area ?	
5) Once suspected areas were established,	
team cleared 40 yards of additional area	
I to insul no ordnance would be encountered	
outside proposed boundines. area marked by	
yellow surveyors take to identify boundies	
(6) Nor area established in SWMV #7.	
7) Clearance begins at SWMU#7	
8) M. Ligin briefed on the need for container	
for scrap metal. advised by M. Ligin containers	
would arrive by Friday at the latest	
9) Turned team over to Billy Francis in	
order to meet with Canden County Kolate	
18) alto 16 Daniel of 18 Titles	
10) Ofter 12 hours of searching GA. Titles	
for swinte sioperty blasting which is dislocated	
from public access. Will contact GA. state	
The Marshal again to explain & findings of	
Probate Judge and ensure no additional permitting,	
with exception of ATF explaine lisense, is required.	
Demo books good as far as servit regurements.	
Demo books good as far as servit regurements. 16) Work continues in 5WMV #7	
11) Team delrief completed. Team departs at 153d.	

75°F - Overcost 1) Team aures at 6700. Lafety briefy complete.
2) Team begins work at SWMV #7. Working 1 Oct. Section #1. area broken into for clearance sector. 3) M. Legin briefed on the need for strage banels for ordnance debus. He stated they will 4) Team hears for lunch (& love) 5 Law Environmental arrive at SWMU #7. Ellis : Gross arive aux to routes. Safety briefing for area 7 conducted by I Stim in law of M. Barrett. Munition ! chemical layards covered Junior Mole, dozer operator builed. His assistant also briefed I understand hazards of area and will remain with EOD-TI representative at all times GSP. Rowh 6) Law Environmental dull crew P.M. arriver. Descussed areas to be cleared for well access 7) Safety builing will be covered at 1000 tonanow by M. Banett. 8) Operation in and SWMU#7 suspended while diell team incide exclusion your. Dull team sersonnel bufed on hazards and executed by B. Ferancis. Ellen (Law) descrised 9) Chris Malry & La Sumv #7 in detail concerning drill team would be assigned to c. Maly without his specific approva 10) Team defrief conducted. Team departs at 1536. 2) Team departs to swmv#1 to complete Section 1 of area. 3) M. Barrett conclucts removal of C5 contaminated air D. own safety up and he would not get envo EDD-T Rolate no usponsibility for while on site. M. Banell noted 4) HAZMAT team enter arria in. hardler work begins to esposed to feary concentration of CS. Depart 5) Section 2, SWMU#7, work complete 6) I Stime excerts dozen driver its * Assigned to job #2042-2; 0900 - 1100 7) Clearence paths marked by J. Stri. : K. Bellian * Assigned to job # 2042-2; J. Stri. - 1300 to 1500 Team secures from 2000 3WMU # ? 10) Delrief complete Team departs site at 1600. (I four for hunch)

11) Two sersonnel will provide EOD support to

C. Malry (job # 2042-2) Personnel - Billy Francis's

Dave Becker.

I 1	ı
	80°F - Heavy Rain : Thunderstown
3 Oct.	1) Team arrives site at 0800. lakets buil
	1) Team arrived site at 0800. Lafety built conducted by B. Francio. Team consist of
	B. Francis & D. Becker
	2) Team slaced on standby by Chris Maly
,	(Laso). Thunderstorms continue.
<i></i>	3) Tean released by C. Mayby at 1266.
	4) B. Francis - 4 Louis; job 2042-2
***	D. Becker - 4 hours; job 2042-2
	5) J. Stire: G. Jimmerman to support
	11 a + 92 Will be +1 . I al down . 1
	4 Oct. 92. Will be notified at 6960 if
*	conditions will semil work at site.
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82°/ Overcast / Rainy CT. 1) Notified by Ris Maby Law, Drilling Team at oggo to arrive site at 1000. 2) J. Stine: B. Zimmerman arrive site at 1000. Safety briefing completed. Decon station set-up lighted during safety briefing 3) Chus Mabry briefed J. Stine on dill site locations 4) I stime: S. Jimeman set up decon area.
5) Two dill sites in and swyo #3 cleared for dull ugs. Pownlole performed at 2' foot intervals. Two wells completed, 3rd site cleaved for up/dilling 3rd dill site for heavy trash / delvis sile SWMU#3 leavy with trash & industrial delies 6) assited C. Maby at SWMU #6. Due leavy rains (8" in two days) swmv #6 has 2"-12" of standing water. Elekicle stuck! Work 1/2 hours to get out of SWMU #6 with no sucess Well being lack loe from SWMU#3 first thing 5 Oct. 92. 7) David allen and J. Stine town site 5WMU#6: 7 for descession on dilling location accessability 1 of 4 wells can be done at swmv #6. 3 of 4 might be accesable at 5WMV #7. Demobilization of dill crews may be required & due to severe flooding and continued eain. If this lappens cur has 3 days at SWMU# 1 plus demo. of 5-6 days.
8) J. Shin: 'S. Jimmerman released at 1736. # 2042-2 - J. Stone 7.5 Louis # 2842-2 - G. Jeminerman 7.5 hours 9) Full crew instructed to arrive job site at 0700 5 Oct. Team departs ofthe debuil at 1730.

740/ Ruecast Team arrives at \$700. Safety Driefing. completed: 2) Two people - M. Barett & K. Bell M. Barrett - 2042-2 - 4 hours K. Bellhon - 2042-2 - 4 Louis 3) Talked with Dave Cunningham to fer a bun pan. He gave me a lumero Jacksowille Ft. Tom Hartley - 964-724-7477 M. BARRETT - 1500 - 1700 - 2 hrs - 2642-2 K. BELLHORN - 1500 - 1700 - 2 hrs - 2642-2 5) area extremely waterlogged. subleme 6) Called Tom Hartley find out tonavow if a versel is and labor 7) Crew working and SWMU#7 deep wate. ground. Will work as long as possible.
9) Personnel with exception of chill assigned personnel, depart area for the day at 1536 90) M. Bouett / K. Bellion depart site at 178d

750/ averaget t 1) Team arrives at \$700. Safety briefing complete
2) Chie Malry: Done allen (LAW Dulling Gew)
informed ne that they would be departing
site. M. Ligin wants to demob two personnel due to dill rigs leaving. Dell rigs may return sometime next week, should be Monday.

3) Informed C. Mabry "M. Liger of the impatant of notifing me of work schedule and that its an ever in judgement to denot. I personnel will be need Monday or Tues. Requested Law P.M." decide what direction to pursue and make a command decision. 3) Revonnel working the SWMU#7. 4) Requested M. Ligin schedule meeting with Mr. Brandt at the Canden County Landfell to He stated he'll work the issue 5) al Sacchetta arrived to relieve M. Sigin. M. Barrett conclucted initial safety briefing and M. Ligin completed site familiarisation.

6) M. Ligin notified me I would need to Diell crew doesn't know when they will retur 7) advised M. Ligin to release team to school four day bear to allow for water drainage. Diel crew may return Monday or Tuesday). 8) 1530 - Outline complete, team departs. * ADDITIONAL ENTRY - M. Ligin notifies me to denot two personnel on Friday . Notified at 1730 at notel.

1) Team arrives 6766. Safety briefing completed. 2) M. Barrett, while talking with Dave allen at supper mentioned denot. of EDD-T personnel.

M. Barrett notified me that LAW dilling crews
will mot. Monday to Site (Woodbine). al Sacchetta ask why team demobing if diet new moling back to Woodline on Monda The didn't benow I explained to a Sacchetta the cost and logistics problems envolved with not deserted denot. also ask who was lolding the earbit and who were owned the sabbit (what the hell is going on?) al will wait for M. Ligar 3) M. Ligin aines vite & Stim requested the matter be settled ASAP. Instructed M. Ligin we should remain with my original schedule and stop jacking me and the even around. Stated if he couldn't settle the matter I'd settle it for him. M. Ligin contacted pare Melis, LAW project director M. Ligin departed site for Keneraw, ba D. Wheelis called back Labring to al Sacchett and stated be wasn't aware of any schedule dange and to proceed on established schedule alls well. Team should dinot 21 Oct. 92 4) Crew continues work 5WMU#1 5) Explosives robued from Slury Cop 6) Contacted Marvin Loury's office. He was called out of town and won't be returning & until Tuesday, 13 Oct. 92. 404-656-6900 7) Billy Francis advised of situation 8) Team departs at 1538.

* ADDITIONAL ENTRY * 1836 <u> أ_رك</u> forer to Billy ewel The Sate of time

Team Secured & out, Thru 11 oct 92 - In toin (4) Day Break, will resume operations 12 bot 1992. \$700 Hours (1) * additional Entry Enterprise Car Rental Called at note wanted to know milege on Truck and if we would need additional time on Vihiles Informed them I would let them know next weeks 1936 Hours This Sati: 2 out 72 (912-262-1436) It. Team of for this Day!

21/2 Day of Form (4) day Break [1) Received fler Drem Checks from EOD-T. Distributed Checks To Individuals concerned also Received Check for Edward King. This Indevidual not at this site: will Hold theat until word from Home office us to Distribution 1296 Hoves This Sate (2) Shone Conversation with John Stein E00-T office 13:48 Hours The Sate, Invoices Concering LAW Eng. also contracts to fee returned to top-T of the to Elbin a lopey of fetty lash Log For Fed & mailing Belly Fromis

.od. Saturday: Turm of toda

23 " Sunday! Team of Today

2 oct Temperature - 76 Survey (1) Team arrives Site 6700 at 0710 Jours: by Work Sovrett all Lours Today & he charged to 2642-1 Team Dispatched to area ? Complete this area - (Neviry Becker of Glen Zimmermon (3) Work Barrett of Kim Bellhous inventorying Explosive Bunker to ascertain food many etims one Demo, & How many Items are for Burning (4) Called John Stein FOD-T references Charges pertaining to Instruments on Standby: for Last Week. (5) area Seven (7) Cleared & Secured for this operation: (6) Call from sulf Team from Low Environmental Inc. They requested Two (2) men for Exillin operations tomorrow 13 oct. 92 (7) Semo area is prepared of ready for Semo operation the date: Explosives have not been received as of this date: will check with UPS. first their tomorrow: 92 Balles Francis (9) Thom Deports 15:36 HZS

XT Jemperature 80 & Sunny (Seauthy Sun) Sofety Briefing Mork Borrett! - Covered Drilling operations of Range Sefety & operations 2) mark Bonett of For albert Suedella Low Engeneaux froject manager Departed \$730 HES. 3) \$836 Sulf Flam From Low Engineering arrived on Site, Two Becker & Eller Timmour Usigned to Sill Team for Silling operations (4) Talled Sturm Corporation, Columbus Kansos, Epplosives adered & Shipperf by Truck' Hove not received Explosives this date! Slurry Corporation is Checking I will call back to inform us the Shipment. 12:30 Hours (5) Explosives found in Sovannah GA. Will be delivered tomorrow AM 6) Well Dulling Tean arrived will stort drilling queration Tomorrow

14 at. Temperature 80 - Sunny Doy. (1) Safety Briefing, By Kin Bellhorn Covered Willing operations of Ronge Safety & Demo operations G136 Tram of Dave Becken of Glen Timmer mon , ossegned to well Stilling operations area "7" (3) \$745, Ess Ilom Mork Borrett
Bil Fromis Min Bellhow Stort
Semo operations today. Dove Becker & Glen Zommermon 2042-2-(5) 10 6 fes. Called atlanta Sa. Concerning
Burn parmit for State of Sa. 404-656-64 68
Marvin Lowers: (6) Have not received any information from mats higar (LAW) on the Disposition of the Alname stems recovered for burning at this time 14dp 1482 Hove not received explosives, Hove made numerous phone Calls to Jacksonville Fto Concerning Shipment to FOO-T Here at Woodbine SA. Joh Site mark Barrett Has been on the shone numerous Times wquing about this Shipment 1496 Hrs. This Date 1

111,004 (9) Team Secured 153\$ Hours. 15 oct. Temperature & Sunny (1) 6796 Trom arrives area 3 9) 9715 Safety Briefing, Covered Demo operations Convered will drilling Safety for well drilling Crew information (3) Dovid Becker of Den Zummernan despotches with well drilling trew for the Dulling operation this date. (4) Bil Franco & Mork Bonett of Kim Bellhorn Three Byon Semo team for Semo operations (5) Demo operations Consist of Destroying 46 mm Frog Grenades 14406, (6) Demo operations consisted of Eight (8) Shots today: will resume Demo operations tomorrow (7) Range Clear & Semo Team Secured Semo operations at 153 p HOS thes 8) Team Secure at 1545 Hgs 9) * additional entry Missage abbie Home office. To call her I called at 163\$ Hrs. Information Concerning invocios & to odd

for cleries Servis: additional entry, Burning permit and wants the ordname that we recovered for Durning to be destroyed by surning. He authorises Type mon Teon (3) for Three (3) more don operations to the sursi Ligon to For Copy of Burn fermet, us tomorrow 16 out 92, We are working under Contract XX 2042. for this operation.

Temperature 80 Beautiful Sunny the Buefin york borrett; Trilling now Local Hazards for (2) Domo operations Commenced (\$836 Hours this a (3) Well drilling (new of Dave Becker of Glen Zympermon Standing By fa well drilling operations to Dans operations Completed This Sate 11:00 Hours. (5) FOR Team frearing for Burning operation to Commence Monday Morning at 0748 (6) Bill transis & Kim Bell Horn Dispotchant to Tockson Vill II. To procure Two (2) containers to Safely Burn stom of ordnounce recovered from aren" 7 7) team Secured 1530 Hous. 16.4 Hours. For received from monkingon LAW Enginearing Severing fermission tother, sounday morning of 19 oct 41 () 10-1-1

at too Thom Demobilizating Two (2) men Tidio Sate. Savid Decker & Den Zimmermon Saving Decker By P.O.V. & Glen Zimnernon by air novel! (1) Three remaining, members mock somet Kim Bellhow & Big Francis are authorized Thee (3) more day Experations for Burn of remaining ordnance to Comm mondon Morning 19 out 92. respotched to Jockson it to Bermon Bios Salvoge Good. To fresh up Tho (2) Containers to Burn remaining ordnance starting Monday Morning 19 out 96.

to post Saturday: Team of (1) To Tacksonville FI. airport fa !
Flight To Portland oregon. 163\$
This date: (2)

"sect Sunday: Team

16 904- Temperature To Beautiful Sunny (1) Thom report area Blue (3), \$7948 Es team prepares Burn area for Sun this afternoon (2) Two bretal Containers, are Filled with Wooden Ballets of ordinance recovered for Burn Burn initiated at 133\$ Hours Excellent ignition of Sur 03 Both Containers, ignition was Electrical: mark Borrett Mas Total Court of oldnance items liged in ordnance log after Our tomorrow will log total Court of items of type; (3) Save Cunninghom, liasion mon for (mion Carbido notified of Burn today & tonour He Informed the Fin Dept on this instalation and I also talked to the Fre Sept Seople. also Dave Called the Georgia Forrest Division and all systems were to In today & tomorrow Burn Successful Brea Secured Will Clean & check Containers Tomorrow (3) Hom Securel fa the Doy 1534 Hs.

Temperature 70 Beautiful Sunny I Team Reports to area resore Burn Containers fal Drums of labeled Scrop Engineering Disposa, 2) Albert & Sarchetta Law Engineering all scrop and they plan to to atlanta to Sispose of o 0834 Burn area is clear of Final Sura ignites 133\$ 100ms This date (4) albert 5 Sanhotta Law Engeneering vised FOD Team Purchasel for the Job Site, under contract 20 42-1 \$ 2042-2 are the property EOD Technology 1404 Hours. This Sate 5) Alex Three 1534 House of ED Team Seaves for the day. 2004 92 My January 1

Temperature 70 High Beautiful Summydog 121 out 1) Eas team arrived area 3 Site - Tram Safety Drief & Burn area Cleaned and checked all Burned items placed in drums & labeled Scrop." (2) Kim Bellhorn returned the Burn Containers. Torksonville FL. Salvage gard- Seport 5340/ Hin Bellhorn, Bill Francis & Mork Borrett returning rented an & Truck to Enterprize Rentes Brunswick Da. 1236 Hors Items of ordnance Burned on the 19th oct of 20th oct 1992 are as follows. M-301 ILLUM. MORTOR-8-EACH M-EY POWDER TRAIN TIME FUZE 906 EACH M-49_TRIP FLARES 200 EACH 14-7/A2-PRIMERS 347_EACH XM 15 C-5 CANISTERS 57-EHCH 260 EACH 40 MM-C5 GRENAUS The above listed items were destroyed Sy Surning: 5) Burn are policed & cleared, area Eguipment of Securing & facking tools & -Equipment of Semobilization - Tomorral -

37 2001 Semobilization De Borrett Kim Bellhorn (2) all Honds' away = End of Log

ATTACHMENT 4 SITE SAFETY LOG

•	- Mobilization TRNG / Safely brief				
1992	carered: weather consitions, Hent related injuries,				
8:00 AM	Size Hispory, UXU/ARW SUNGER Clearence, General Safety,				
	Site slecific lhazands je tick, chişgers, snotus, evergmay				
	response Procedures, Material lifting, UXO/FULE HAZARDS,				
	review of work plan.				
	Myle Rosition Contra				
0	Mail LIGON 5. Pras. Manage Low Gruinmential				
0	John sine bot sie sup. 6007				
0	Mark Barrett SSIto EDDT				
Ø	Glenn Zimmerman uxo specialist EDDT				
<u> </u>	Billy Francis UKO Surv. 600T				
0	Dave Bicker vivo Slecialist 6007				
0	Kieu Ballhorn uso stepatist GODT				
10:00 AM	Jul Wimberly, gave all Personal				
	briefing on Aconcord, Temik pesticion.				
A set	· Tail got Sololy briefing				
OTO MM	caced Uxo/General Solety, work another, emerginal response				
	procedure, Tich /snohr procedures. Weather: 88°P, 939. Humany				
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	laconnel lucia: Most licen law and the commended				
	lasonnel high; Mott ligh, law onvinomental, John stine 60PT)				

1	Much Barrett SSHO, GOOT, Billy Francis GOOT, Glass Emmens	1 12
	topt, David Bechen EDDT, Kim Rellhour GODT.	
·	The second secon	<u>MA 083</u>
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Bapt	Taikate Softly Building siner by kine Bellhouring 295 101
0115	All EDIT leasured Present and Mutt ligar, Law Environmental.
	Carriel UXO sarty, Biological Mazzados, Vehicle Safety,
	emergray response procedures! Utaker: 85°F, 95% humily
	west of the sent to be sent
24 540+	Tool gate Safety Briefry given by Mail Banot 5816.
0700	ALL EDDT Personnel Present Carred; Oxo safety
	Brilogical huzurds, while sifety/weather conditions,
	emergray respose pocidines, ie radio/ Cellular phone procedures.
	Weather: 82°F, 92% humolity rain expected throughout day.
0140	Matt Ligar, Law Environmental, arrived on sto, briefed
	or Safety issued dictured.
25 Sept	Toutgote Safety Briefny sim. by Mark Barrett, 5846.
0102	ALL BOT Personnel Cusont: Uxo / duamer Safety,
	Biological hozards, Vehicle Sofety / adverse veather
	anditions, emergina, response proadmis.
·	Weether: 78°F, 87% humails; noin expected throughout
	day
onis	Mett ligh, Law Environmental, arrand on sile, briefed on some of
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Feet 28		W. Cark
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	Produce, Bilogical hazards, weather conditions: were so's	
	projected humidity 87%	
	and the state of more primal thinks they bear the	A. 344
Sept 29	Tailgute Salidy Brefry perferred it by Mr. Bandt, 3	ssutu;
020 149B	rec toot lessand bisent including Mott Ligar,	<u> </u>
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i	Total soft freeling your of both state	25 Expt
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11:38	Team arrived Dispussings for Marcal attentions	
N:50	Team arried Dispusary: for Marcal attention	······································
	Exercise notated by Matt Light, Law ! Engineere	nal
_,	- Miles	
59et 30	Tailsate Safety Builing performed by U. Bariett, s all East Personal Present includry Matt. Figur,	SHOYO
0654	all gast Personal Present including Matt. Ligar.	
	Law Environmental: Carried Uxo Sofity, Vehicle Sofi	Д
	Biological Dozands, Weather: 72°F long 75°Hurridity.	V'

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youn stre Buley Francis 1997 Mem Zimmermen GOOT Kim Bellhow 5077 (1) we Buchen 6007 Mach Barutt ent Heurs carred wo sofety, Dean boarders atrapine aut vyeder training Vehicle Safety, Biological hogods, Emergency Response biocedures, Weather Coultur Princy Mid 705, 80% humidity. the second of the second of the second oses Wasteds crew antered exclusion give to ware an sample which is carered with cls residue. 2 items exposed to CIs because of dring downword and NOT taken my adura to wan Full free Protection. No side affect. the way the second of the seco thro Cource at Swm tt 3 to see no contamonation control, no Decon line set up. But Mott Ligar, Gusially he doesn't care Notice Marteds pusanel barry and in Tyrch to so to fredh and to dish, eat, and alax 1200 Watt light, started to set up area properly, Cinally!

ones Oct 2 Triday Taikati Sofety bufy rigion sky Thysulino All For Brown pused: discussed uxology broyads, Chemical Vizards, Biological Diszarols, While Safety. Weather: Rainy und 10's, 62% humidaty. Committee The world A FREE SOUND Wiscost IN William HONONERS WIND oct 3: Duling oris, stood by ones as 100 Billy Francis / Dave Buder on 18 sto. TO 5 1000 With stepped at: 12:30 mm Oct 41 Parling ops / intusine walk John Still / Glen Zimmerman 1000 Dear line Sot up in and in a service Team stood by as solety to Re drilling with had been the spall of North had a select the the 000 Oct 5, Marday, 1992: Nowbyate Safety Brief guen by Pave Reckens Starts discussed Biological Hazards, Vehicle Safety, Olan Procedures, volosio Hayards, Chemical Hazards, Weather Caracters Weather Site in Indu 3" of crater in law lying places or legected this 72°F; 75% humany.

All GOOT lessavel of Present.

Oct 6, 1902 : nalgate Earth Builing sain big 1 100 Kun Bellhoun: Type Pisaisad vere: Ux0/aw Soldy, Vilide Soldy, Dean Procedures, Biological Programs, Thuss/Hypodomic Needles Swaw #7, Woter hozards, in Suppry music Got, Chancal Hegads ALL GOOT Personal Present, and West Ligar Law Environmental. en for and only to the colorest way that Oct 7, 1992 Parkate Golding Bridger By Will A Front Topic presumed were Uxo/cow Sapety, Volviele Sofety, Decon Proodnes, Bilopal Dragards, Moss/Hypodenic Mudles Swurtt 7, Water 1 Orgads, chemical bazards whater 77° name All East Resonal besent and albert Sociality daw Environmental encircular OCT 8-11 Stend dawn Duys All Personal bright in travel requirements. Tailgate Safely Brief guen By Billy Francis TOPIC Discussed vice: Ux0/oew safety, which safety, Chuncol Iragards (Tanik), Briogral brazards. All Also Resort albeit Secchetla. Weekle 817, 80% humanye

01/10	Oct 21, 1992	F	
	dast outry! Tailgat Sofety brief	guin by	
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ATTACHMENT 5 UXO ACCOUNTABILITY LOG

Ordinance Accountability Log hopet the Woodline , JA. Sww # 3. Churing torse 1300 hrs , Sapt 21, 1992; Marday: Began Hagging operation in Over ofter primeter was marked trea is rapply An on Maois Thurades Clarged A) DA. - NAO 0930, Supt 22, 1992, Twoday: Regan Flagging Ols. Hasged 54 40mm MACG Thanades 101 en. - MACK Eno of Day Accountability: 162 DA. - 40 mm C/S 162 DA. - C/S
Grenades onis Supt 23, 1992, Wednesday: Bugan Alaggig OPS. Alogad 70 40 mm, made Therades 171 an-made OND of Pay Accordability: 98 on. - 40 mm c/s 260 on. - c/s SD GA. - XMIS C/S 52 FA - XMIS truished flagging Operations in SWW#3, WILL desir Beautier attack on Rassed 40 mm, M406 Munadis TOTAL MADE Grandes flagged! 191 Ex.

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- -	0120, Sept 24, 1992, Thrusday:	AN E
	Begin disainer attack, 3 personal injury	
	Glass Zimmeruran, Kin Balhoun, and	
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	(Kuning Total)	
	4 stats were performed, All Tours dummer 4 EA	
*	fuzed he ballistic purposes, with what appears	
\$2.	to be the Camp B falor used primary in	<u>øna</u>
	these mentions.	
	0830: Field test burn on filler, negative result	
4.	locks and burns like a player composition.	
Assay to the		
	flagged additional 20 00. 1409, total	
	191 BA., Shot 4, tork number	
		do
<u> </u>	to be 5hot: 187 51.	V-1
		-
	Thiday Sept 25, 1997: Continued disaurer What as M406 Thurader:	
	Performed 37 Ex. 41 Ex.	

ohis Morday Sept 28, 1992: Continued disarmer 2 attack on 1406 Therader, with 2 Disamers (Ranny 1872) 80 ghots pulumed 121 shuts * Instructed Jean to use wooden Davels thots in live of substandard slugg. Davels work ming total good but increase load when using knodex A EA us. Glade lander (FFFG) \$120 Sept 29, 1992: Twoday: Continued attack
W/2 Dearmers Flagged 1 11409 Thurwds. Q1 Shots Perfamed 192 Snots Performed well them wy kin Bellhoen Muss Zimmenian, and Mysef as other team is beiling on Sww #17. 0125 Sypt 30, 1992 Wednesday: Ox partitud over Extre and 11 items uncalled due to weather / animals in area. 16 - 1499 gurado 10- 40 mm cls Monades Shot - M409 total M409 Shorade shot - 193 Shot-Wa Cliqued - Sum #3 Couplete. Wash A. Barth Sours

Violet # 2042-1 Wood line DA Swaw #7 Personnel on Site: Jan Stre, Billy Frencis, and David Backer Eviday Sept 25, 1997: Live four ucacud 51 MM, M301 guies Illuminator Morbu: I a. MEY Pander Train Jime Fuze (PTTF): 1 GA. 149 Tup Pare 10A. Morday Sept 28, 1992: Live New recovered 81 un M301 Sours Mu. Morta (Carolles) - 85M M84 PITF: 257 6A. Mag Trip Flores: 200 Fur Assembly W/ M7122 Primer: 17 04.11 MIAZ Rimer > 2 EA. XMIS CS constr. 201. the banks are two to the Ausday Supt 29, 1992: U84 PHF- 95 EA. 149 Gup Flow: 30 EA. /

MTIN Rumers - 135 BA 1-113 8 + 1200 For Assurby w/ hinter of the Committee XM15 0/3 curvelon - 2 da. ellemination candly to great the commend usilari trum Supt 30, Wednesday, 1992: O CONTRACTOR OF THE PARTY OF TH MBA PITE - 3 PM 149 Tup flores - SOOL Tail for assembly w/ MTIAZ Primer - 6 + Rupers, MARZ = 23 CMM 1 1 1 1 1 XUIS C/S Conster-1 the second of the second of the second of Oct 1 Drusday: WBA POTE : A GA. 149 trip Flanes: 1 EA. MM AZ Primers: 2501 100% Invertory Parformed Hours segrated and Marted in containors: M301 Series ellem Mocka: 1 eA. W84 Pauler train time Fuz: 310 on.

Continued - Sucrtonez Mag trip Proces - 90 ea. WMAR Primers - 85 ea. For Cossanly w/ M11A2- 23 ea. illanivation Carolles- 19 ea XILIS C/s connister: 5 ea. Oct 2 Friday M84 INF = 22.01 Time Charge lings off MOY PAF- 54 -Mag hip flore in 1000 1000 MMAZ Primer: 1 EA. 10 MECH SCHES William Medicus (PUC) - EX LES - - STOCH Son Monday : And and short whom AAN & 1184 PHF: 124 ex- 2000 C CHAT PAM (E) M49 strip Flore: 20 st. 10 varies SASSA (F) MMAZ Primers: 38 parteriari poncio M301 Ollmin. Martins 15-200. No 2 MX 3 4301 alknin Codle SUN DA 1 (5) Oct 6 Twoday: MB4 POTF- 30 6A. Minny Copalle - 1 MAY Trip Flores - 74 DA. M301 M/m. Naka-1 UMA2 limers - 38 GA.

DOT 7, 1992 M89 PITF - 366 MIAI Primers - 719 Munion Cordle 4!! M301 Ulum mortous- 4 OCI B-11 Stard Dava OCT 12 - Ø Finished area 100% Inventory Performed - at 13 M301 series ellumination mortans (fuel) - 8 EA. 0 M84 Pavder Train Time Fuge / Indulary time charge rungs - 8525 M49 Trip Flaves - 200 pg. (3) M71A2 Primer including Tail Fin Assembly with (4) himey installed - 347 EA. XM15 C/s convistors. 51 pg. 40 mm, M409 Grenades - 193 BA. 40 MM CIS Grenade- 260 DA.