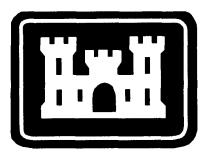
FINAL REMOVAL ACTION REPORT Ordnance and Explosives (OE) Time Critical Removal Action Assateague Island Worcester County, Maryland

PREPARED FOR:

U.S. ARMY CORPS OF ENGINEERS ENGINEERING AND SUPPORT CENTER, HUNTSVILLE



DACA87-95-D-0027

Task Order 0026, Mod 01

PREPARED BY:

HUMAN FACTORS APPLICATIONS, INCORPORATED



20 August 1998

The Views, Opinions, and/or Findings Contained in This Report are Those of the Author and Should Not Be Construed as an Official Department of the Army Position, Policy, or Decision, Unless So Designated by Other Documentation.

DACA87-95-D-0027 Task Order 0026 Mod 01 20 August 1998 Final Removal Action Report





Human Factors Applications

ORDNANCE & EXPLOSIVE WASTE REMEDIATION

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August 1998 HFA Serial # 027-999

U.S. Army Engineering & Support Center, Huntsville CEHNC-OE-DG 4820 University Square Huntsville, AL 35816

Attn: Mr. Glenn Earhart

Subj: Final Removal Report for contract DACA87-95-D-0027, Task Order 0026, MOD 1, Time Critical Removal Action (TCRA) Assateague Island, Worcester County, Maryland,

Dear Mr. Earhart:

Enclosed for your review are six copies of the Final Removal Report for the subject project, and two copies of the Ordnance ID Guide. I have distributed additional copies of the report, and Ordnance ID Guide in accordance with paragraph 4.0 of the Scope of Work, and your instructions.

If you have any questions or comments please call me at 301*705-5044, or fax 301*705-7561.

Sincerely,

umber

David J. Frandsen Project Manager

as cc: Ms. Lydia Tadesse, CEHNC-CT-D, (letter only) National Park Service, Assateague Island, (2 copies final, 7 copies ID) Ms. Eileen Barry, CENAD-FUDS MGR, (2 copies) Ms. Sheila Bloom, CENAB-PP-E, (5 copies final, 1 copy ID) HFA Contract Administration



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ABBREVIATIONS, ACRONYMS AND DEFINITIONS

AGA	American Gas Association
ANSI	American National Standards Institute
APP	Accident Prevention Plan
ASME	American Society of Mechanical Engineers
ASR	Archives Search Report
BZ	Breathing Zone
CEHNC	U.S. Army Engineering & Support Center, Huntsville
CERCLA	Comprehensive Environment Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CIH	Certified Industrial Hygienist
CPR	Cardiopulmonary Resuscitation
CRC	Contamination Reduction Corridor
CRZ	Contamination Reduction Zone
CWM	Chemical Warfare Material
DERP-FUDS	Defense Environmental Restoration Program-Formerly Used Defense Sites
DRMO	Defense Reutilization Marketing Office
EE/CA	Engineering Evaluation/Cost Analysis
EEDS	Electrical Explosive Devices
EMM	Earth-Moving Machinery
EOD	Explosive Ordnance Disposal
EPA	U.S. Environmental Protection Administration
ESS	Explosive Safety Submission
EZ	Exclusion Zone
F	Fahrenheit
GFCI	Ground Fault Circuit Interrupters
HAF	Hazard Analysis Form
HBV	Hepatitis B Vaccinations
HE	High Explosives
HEAT	High Explosive Anti-Tank
HFA	Human Factors Applications, Inc.
HTRW	Hazardous, Toxic, and Radioactive Waste
IAW	In accordance with
IDLH	Immediately Dangerous to Life or Health
INTRUSIVE A	ACTIVITY Digging to investigate an anomaly
INTRUSIVE	OPERATIONS Digging to investigate an anomaly
MSDS	Material Safety Data Sheets
mm	Millimeter
NA	Not Applicable
NAD	North America Datum

ABBREVIATIONS, ACRONYMS AND DEFINITIONS

NCP	National Contingency Plan			
NEC	National Electrical Code			
NEMA	National Electrical Manufacturers Association			
NESC	National Electrical Safety Code			
NFPA	National Fire Protection Association			
NIOSH	National Institute for Occupational Safety and Health			
OE	Ordnance and Explosive			
OSHA	Occupational Safety and Health Administration			
PPE	Personal Protective Equipment			
PM	Project Manager			
PZ	Piezoelectric			
HSM	Safety and Health Manager			
SUXOS	Senior UXO Supervisor			
QC	Quality Control			
QCO	Quality Control Officer			
RCRA	Resource Conservation and Recover Act			
RFI	RCRA Facility Investigation			
SOP	Standing Operating Procedures			
SSO	Site Safety Officer			
SSHP	Specific Safety and Health Plans			
TCRA	Time-Critical Removal Action			
TERC	Total Environmental Restoration Contract			
TEU	Technical Escort Unit			
Tidal zone	The area between low tide and high tide each day			
ТО	Task Order			
SZ	Support Zone			
TWA	Time-Weighed Average			
USACE	U.S. Army Corps of Engineers			
USATHAMA	U.S. Army Toxic and Hazardous Material Agency			
USCG	United States Coast Guard			
UST	Underground Storage Tank			
UXO	Unexploded Ordnance			
	SAND DUNE Frontal Dune			
WWII	World War II			

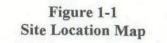
ORDNANCE AND EXPLOSIVES (OE) TIME CRITICAL REMOVAL ACTION ASSATEAGUE ISLAND WORCESTER COUNTY, MARYLAND

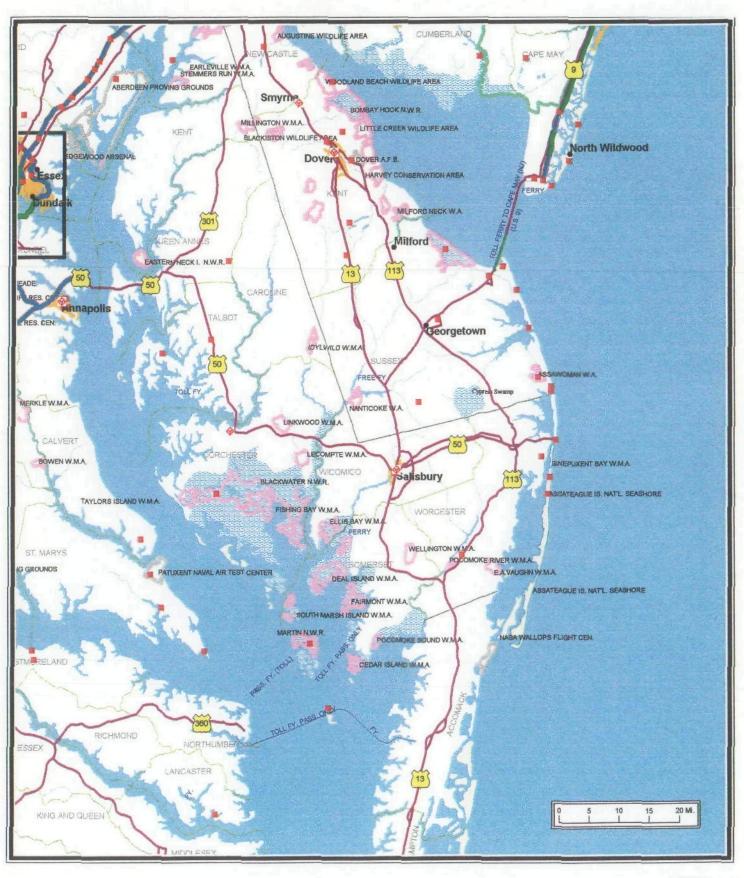
1 INTRODUCTION

- 1.1 Human Factors Applications, Inc. (HFA) under contract to the U.S. Army Corps of Engineers, Huntsville Center (CEHNC) for Ordnance and Explosives (OE), Remediation of Sites in the Continental United States, (CONUS), performed an Ordnance and Explosives (OE) Time Critical Removal Action at Assateague Island, Worcester County, Maryland, see the Scope of Work in Appendix A. The work required under this Scope of Work (SOW) falls under the Defense Environmental Restoration Program Formerly Used Defense Sites (DERP-FUDS). Ordnance and Explosives (OE) exist on property formerly owned by the Department of the Army.
- 1.2 Assateague Island consists of approximately 17,552 acres and is located in two states, Maryland and Virginia. 8,018 acres of the Island is in Worcester County, Maryland, and 9,534 Acres is in Accomack County, Virginia. The U.S. National Park Service (NPS) owns 6,900 acres in Maryland and 205 acres in Virginia that comprise the Assateague Island National Seashore.
- 1.3 In 1994, Parsons Engineering and Science Corporation, under contract to the U.S. Army Corps of Engineers, Huntsville Division, conducted a Site Investigation at Assateague Island. All ordnance items discovered during the investigation were inert munitions scrap, generally in rusted and deteriorated condition. Additionally, no live ordnance items were found during previous investigations. As a result, no further action was recommended at Assateague Island.
- 1.4 During the sampling investigation, Parsons ES discovered and removed numerous practice ordnance items. None of these ordnance items were live, or found to contain explosives. After discussions with CEHNC, it was determined the location of the burial pit would be marked within their grid system, and left buried since no live ordnance had been discovered during the EE/CA ordnance sampling project.
- 1.5 In February 1998, NPS personnel assumed the ordnance items discovered on the beach had been washed ashore by the storm. This assumption is what the SOW and HFA's Work and Safety Plan was based upon. But when the surveyors began to survey in the position NPS personnel had marked in February, it turned out to be the same location where the practice ordnance burial pit was discovered in 1994.

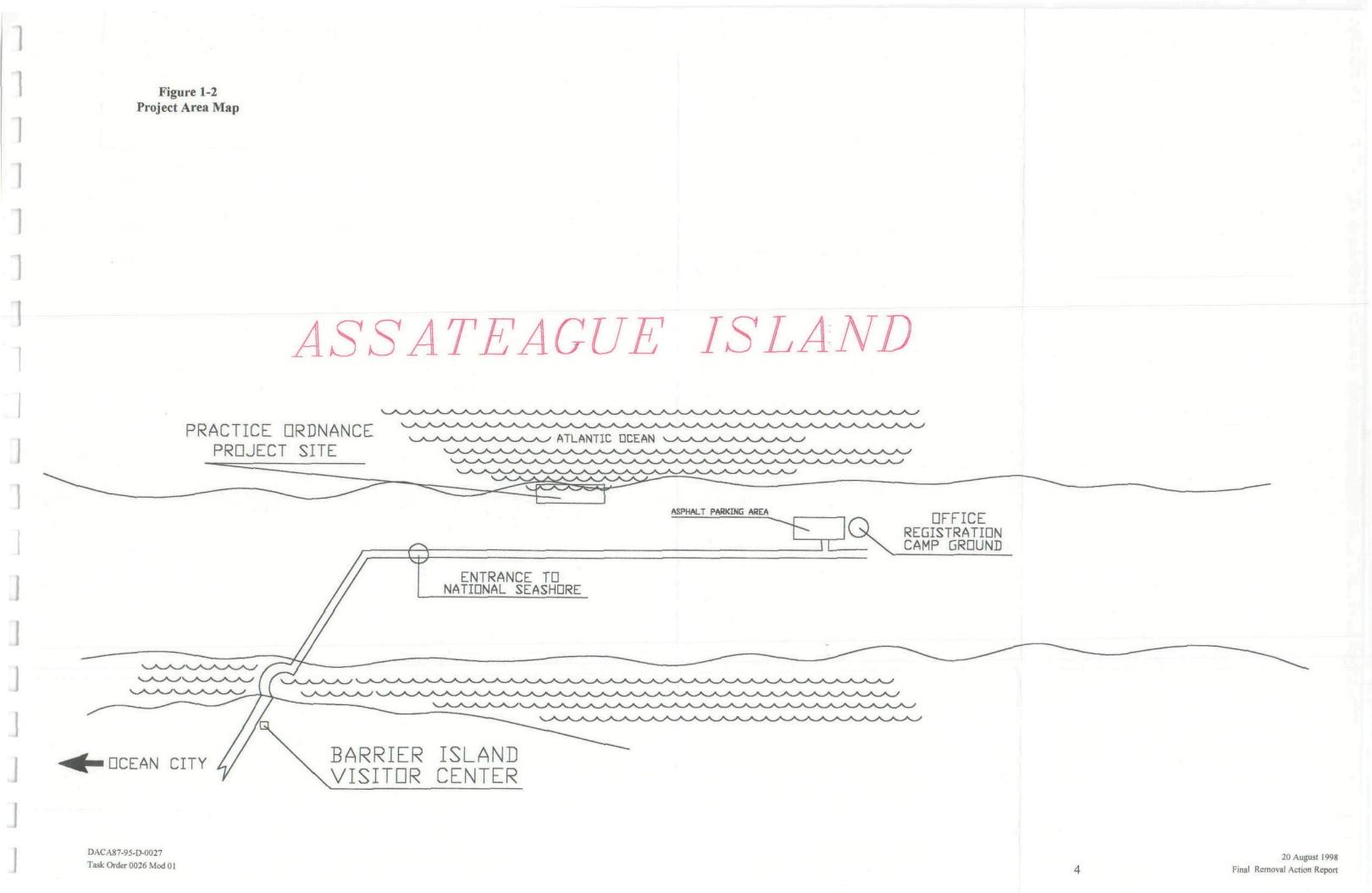
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- 1.6 This Time Critical Removal Action pertains to approximately 2.41 acres of sand beach on the eastern shore of Assateague Island National Sea Shore. It is comprised of 12 grids; six 100 ft. x 100 ft., and six 100 ft. x 75 ft. in size. In February 1998 a major storm removed two or more feet of sand from the beach uncovering approximately 150 pieces of ordnance. National Park Service (NPS) personnel placed markers at the northern and southern boundaries of the site and called U.S. Navy EOD personnel to the site.
- 1.7 When U.S. Navy EOD personnel arrived on site and inspected the ordnance, they were not able to positively identify it as inert practice ordnance. Without positive identification of the ordnance, it was treated as live, and classified too hazardous to transport. They instructed NPS personnel to secure the area from public access, and to request assistance from the U.S. Army Corps of Engineers. After the Navy EOD personnel departed the site, high tides replaced the sand, re-burying the ordnance. All parties involved in the project assumed the ordnance was still buried at the site marked by NPS personnel.
- 1.8 On 3 April 1998, a site visit was conducted by personnel from the U.S. Army Corps of Engineers and Human Factors Applications, Inc. (HFA). All personnel met at the NPS Office and were escorted by Chief Ranger John Burns to the area of the beach where the ordnance was discovered in February. These personnel were, Mr. Glenn Earhart, CEHNC Project Manager; Ms. Sheila Bloom, CENAB Project Manager; Mr. John Brezenski, CENAB; Mr. Jim Hourica, CENAB; and Mr. Dave Frandsen, HFA Project Manager.
- 1.9 The four corner stakes placed by NPS personnel in February marked the area. It was approximately 400 ft. long, parallel to the water and approximately 100 ft. wide. No ordnance had re-surfaced since the February storm. After returning to the NPS office a short meeting was held to discuss the removal action. During the meeting it was determined that approximately three feet of sand was now covering the ordnance items, and that mechanical equipment could be used for excavation. Chief Ranger Burns requested the project be completed by 22 May 1998, the start of Memorial Day weekend, and all parties agreed. Ranger Burns also offered HFA the use of a storage shed near the work site for equipment storage.
- 1.10 The objective of this Time Critical Removal Action is to safely locate, positively identify, and dispose of all surface and subsurface UXO/OE down to 4 ft. on approximately 2.41 acres of beach property as specified in Task 4, of the Scope of Work, [See Appendix A].





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2 **DISCUSSION**

- 2.1 On 4 May 1998, HFA mobilized two UXO personnel to the project site to begin site set-up activities. A meeting was held with Chief Ranger Burns to discuss the work schedule and pick-up government equipment that had been shipped to the NPS office for HFA's use during the project. The following day the surveyor's arrived on site and began laying in the grid network. While setting the control points, the surveyors realized the coordinates for the contaminated area was the same as the coordinates for the burial pit discovered by Parsons ES in 1994. HFA immediately notified the CEHNC Project Manager, Mr. Glenn Earhart, (see the memorandum at the end of Appendix A). Since the area included the area marked by NPS in February, CEHNC determined the grid network should overlay the burial trench, and include a buffer to the north and south approximately 100 ft.
- 2.2 Two explosive storage magazines were delivered to the site, placed in a secure area, and grounded on the morning of 6 May 1998. Later, explosives were delivered to the site and placed into the magazines. On 11 May 1998 the main workforce mobilized to the site.
- 2.3 On 12 May intrusive activities were scheduled to begin and Media Day was held by the Baltimore District's Public Affairs Officer. Due to weather conditions, high wind and rain, intrusive activities were canceled and the media briefing was held in the main NPS office. The Baltimore District's Project Manager, Miss Sheila Bloom, CEHNC's Project Manager, Mr. Glenn Earhart, Chief Ranger Burns, HFA's Project Manager, and the CEHNC Safety Specialist, met with the local press. An overview of the project including a brief history of the site, pictures of recovered ordnance from similar projects and the project's objectives were presented. The possible hazards of the ordnance, and the procedures HFA would use to ensure it was safe prior to disposal were explained and discussed. A question and answer session was held and more details of the project were provided.
- 2.4 On 13 May 1998 the weather subsided and intrusive activities began in grid A-1. The wind continued to blow from the east, pushing the tide in farther than normal. This unusually high tide covered most of the work area and only the most westerly grids were able to be searched. At 1100 hrs., HFA was notified by the Baltimore District's Public Affairs Officer that the local press were on their way to the site to take pictures and interview the UXO personnel.
- 2.5 At approximately 1130 hrs. the first of three press groups began arriving. The CEHNC Safety Specialist and HFA's Senior UXO Supervisor provided the press with information on the project and the type of ordnance expected to be recovered. In addition, HFA personnel demonstrated for three local television stations, the procedures used to search an area and mark the contacts. This demonstration included, laying out ropes within a grid to define search lanes, searching the lanes with magnetometers, and marking each contact with a small flag. This demonstration was repeated for each press group that arrived, a total of three times.

- 2.6 The area searched the first day was the buffer to the extreme west of the area and no ordnance items were located. Removal activities continued and each day thereafter resulted in the location and removal of practice ordnance items. Each item located was visually inspected, then explosively vented to ensure it contained no explosives or explosive residue.
- 2.7 While providing security during demolition operations on 18 May 1998, a UXO Specialist discovered a practice 2.25" Rocket laying on the surface. It was approximately 356 ft. southwest of the project area. On 19 May a second practice 2.25" Rocket was discovered in the same direction but at 969 ft. Both rockets were explosively vented and did not contain any explosives or explosive residue. HFA surveyed in the location where both rockets were discovered with a total station. These coordinates are shown on the map located in Appendix B.
- 2.8 On 20 May 1998, HFA completed all intrusive clearance operations, and the explosive venting of all practice ordnance recovered. Prior to demobilizing the site HFA returned the clearance area to it's original condition, cleaned and inventoried all GFE, turned in all of the OE and Non-OE scrap recovered and shipped the remaining jet perforators to the CEHNC project at Griffiss AFB, NY.
- 2.9 During the course of the project removal activities resulted in the removal of 212 practice ordnance items. The majority of the practice ordnance items were recovered from four burial pits located in grids B-3 and B-4, see the map at Figure 2-1, and grid sheet in Appendix D. All of these items were visually inspected, explosively vented with jet perforators, and reinspected by eight UXO qualified persons. Each item was then cut in half with an emergency access saw. None of the ordnance items recovered were found to contain explosives or explosive residue. The specific type and quantity of practice ordnance items located and removed can be found in the body, tables, and appendices of this report. Site security, general field support, equipment storage and office space was provided by Assateague Island National Park Service Personnel.

3 SITE SAFETY

- 3.1 Site Safety was ensured by HFA's Site Safety Officer (SSO). Each morning prior to the start of work a Site Specific Safety briefing was held by the SSO, and attended by all personnel working on the site. A variety of subjects were covered throughout the project, from ordnance safety and identification to personal health and safety subjects.
- 3.2 During the course of the project, the SSO inspected and certified the condition of all ordnance items, ordnance scrap, and common metallic scrap recovered. He also monitored all search activities and explosive venting procedures. This safety documentation is located in Appendix C.
- 3.3 There were no accidents or injuries reported during the course of this project that resulted in

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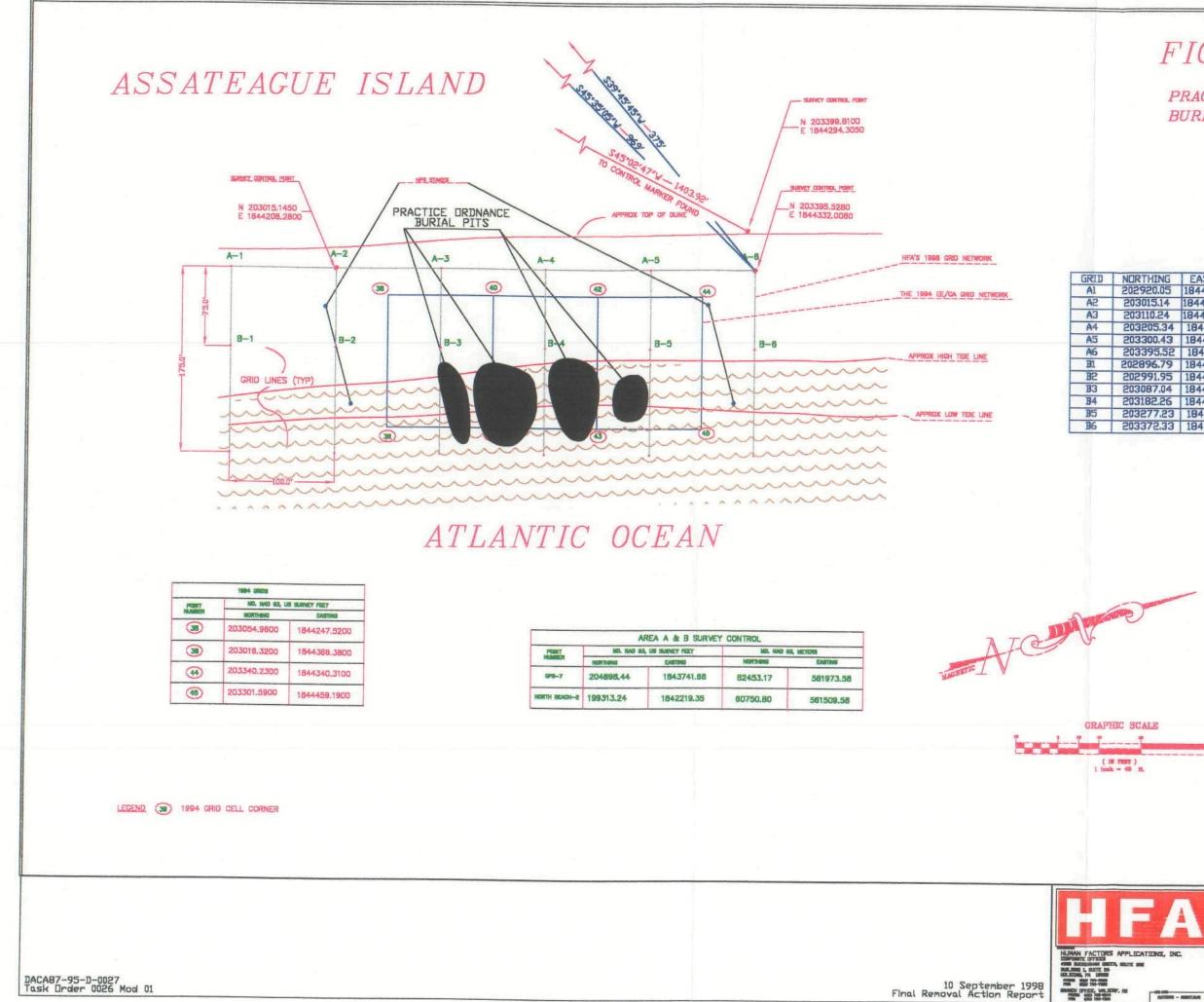


FIGURE 2-1

PRACTICE ORDNANCE BURIAL PITS

GRID	NORTHING	EASTING
A1	202920.05	1844177.97
A2	203015.14	1844208.28
EA	203110.24	1844239.21
A4	203205.34	1844270.14
A5	203300.43	1844300.45
AG	203395.52	1844332.01
B1	202896.79	1844248.65
B 5	202991.95	1844280.23
B3	203087.04	1844311.16
B 4	203182.26	1844340.47
B 5	203277.23	1844371.77
B 6	203372.33	1844403.95
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(IN TRAT) 1 innh = 40 ft.



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		U.S. ARMY CORPS D	F ENGINEERS, HUN	TSVILLE DIVISION	alar.
		DACA87-95-0-0027	#0026		
	MUTTERN - MOREZAM	1 INCH = 40 FEET	MINI SIN AL	15 JUNE 1998	EAL

lost work time. There were no standard UXO safety violations or CEHNC safety violations committed during this project, see Appendix C.

4 **QUALITY CONTROL**

- 4.1 In addition to ensuring safe working conditions were maintained on the site, the Site Safety Officer also performed Quality Control functions. Some specific Quality Control checks were only performed during times when site UXO personnel were not performing removal activities. These specific Quality Control checks primarily consisted of performing a QC check of each grid, see Appendix D.
- 4.2 The daily quality control checks that were combined with the safety duties included, but were not limited to, observing the use and performance of all equipment, inspecting the condition of site vehicles, site equipment, site records, monitoring all removal activities, and monitoring inspection procedures of suspected UXO/OE, and demolition operations. This quality control documentation is contained in, Appendix D.
- 4.3 In addition to his daily inspections, the Quality Control Officer ensured that each morning prior to conducting field operations all Schonstedt magnetometers were tested for proper operation by locating a 105mm projectile buried at a depth of four feet.

5 **EXPOSURE DATA**

- 5.1 During this project a total of 500 ft. of detonating cord, 280 Jet Perforators, and 50 blasting caps were used to explosively vent all practice ordnance items located, see table 5-1. There was no remaining detonating cord, or blasting caps. The remaining jet perforators were shipped to CEHNC's clearance project at Griffiss AFB.
- 5.2 A total of 212 practice ordnance items were recovered. None of the items recovered contained explosives or explosive residue. All ordnance items were visually inspected, and certified free of explosives, prior to being turned over as metal scrap to HD Metal Company, Salisbury, Maryland. see table 5-2, and Appendix D.

Table 5-6 ACCOUNTING BY TASK

	Contract Number:DACA87-95-D-0027 Task Order Number:0026 Prepared By: Dave Frandsen			<u>Location:</u> Assateague Island, Worcester County, MD and Accomack County, VA Project: Time Critical Removal Action							
	Labor Hours					urs					
ERV										Total Hours	Total Cost
			Task 1	Task 2	Task 3	Task 4	Task 5	Task 6	Task 7		
	Field Office Admin	\$16.61	0	0	о	0	о	0	0	0	\$0.00
	Project Manager	\$48.91	48	12	10	8	0	0	6	84	\$4,108.44
	Laborer	\$13.45	0	0	О	0	0	0	0	0	\$0.00
	Senior UXO Supervisor	\$40.42	0	10	0	65	16	0	40	131	\$5,295.02
	Site Safety Officer	\$37.71	44	0	12	21	8	0	0	85	\$3,205.35
	Quality Control Spec	\$38.75	0	0	0	0	0	91	0	91	\$3,526.25
	UXO Supervisor	\$34.61	0	10	0	104	68	0	0	182	\$6,299.02
	UXO Specialist	\$30.34	0	20	o	259	120	0	0	399	\$12,105.66
	Labor Hours		92	52	22	457	212	91	46	972	
	Labor Cost		\$4,006.92	\$1,944.02	\$941.62	\$15,267.99	\$6,942.68	\$3,526.25	\$1,910.26		\$34,539.74
	Materials		\$732.64	\$227.50	\$1,879.95	\$12,996.88	\$2,782.50	\$1,194.38	\$1,663.92		\$21,477.76
	Travel		\$141.21	\$764.22	\$323.32	\$8,166.21	\$3,115.66	\$1,337.38	\$456.36		\$14,304.36
	Per Diem		\$104.54	\$422.33	\$178.68	\$5,111.64	\$1,721.81	\$739.08	\$262.99		\$8,541.07
ΟΤΑΙ	COST		\$4,985.31	\$3,358.07	\$3,323.57	\$41,542.72	\$14,562.65	\$6,797.09	\$4,293.53		\$78,862.93

DACA87-95-D-0027 Task Order 0026 Mod 01 10 September 1998 Final Removal Action Report

6 SUMMARY

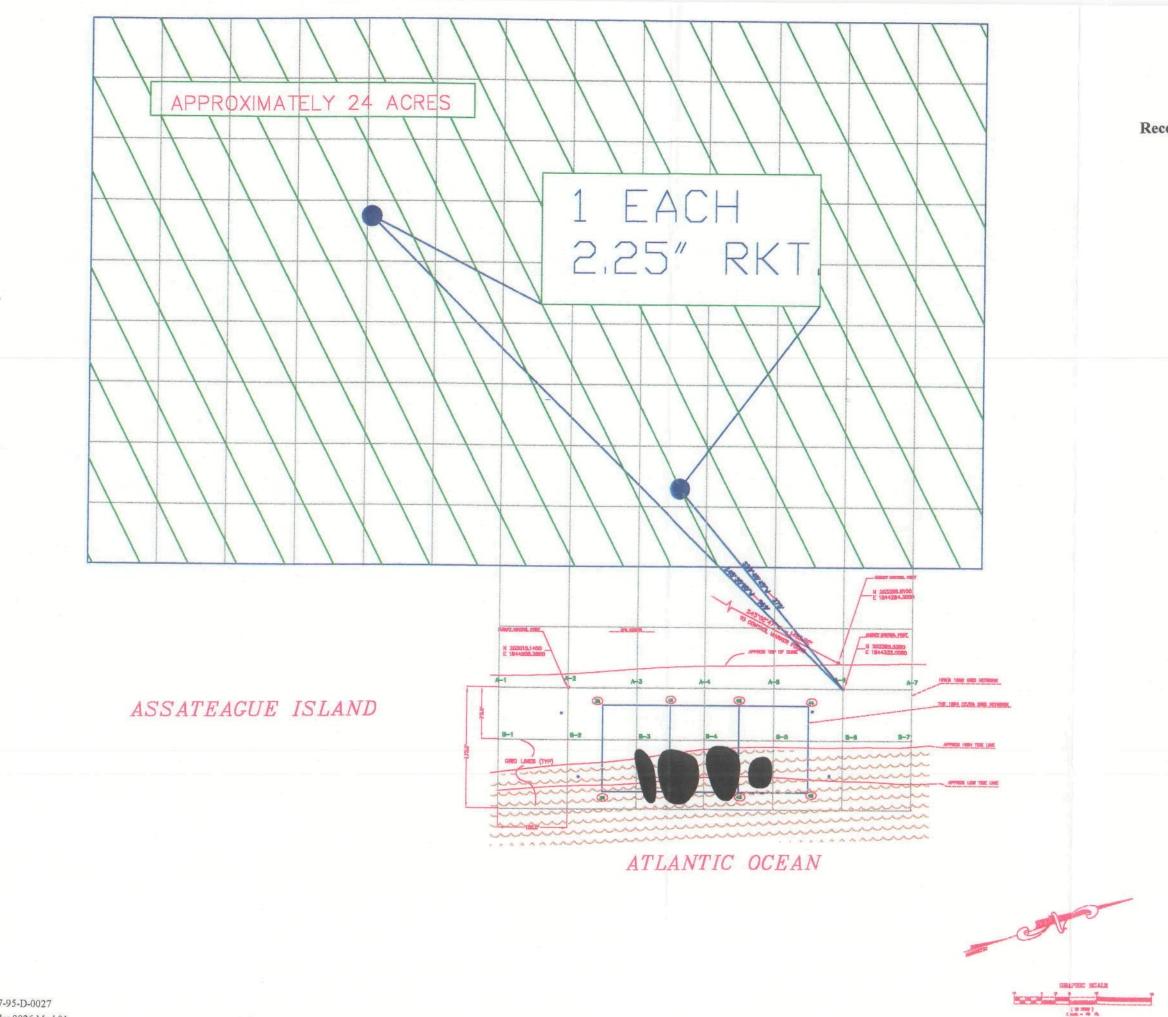
- 6.1 Field work for this Time Critical Ordnance Removal Project began on 4 May 1998 when HFA mobilized two personnel to Assateague Island National Seashore and began surveying the project area and arranging for support facilities. Two explosive storage magazines were delivered and grounded. Lightning protection was installed on the magazines and they were certified for explosive storage. Explosives were delivered and properly stored in the magazines. Two semi-permanent markers were surveyed in by a professional land surveyor.
- 6.2 HFA's main workforce mobilized to the site on 11 May, and field work began on 13 May 1998 in grid A-1 and A-2. Field activities were canceled on 12 May due to heavy rain and high winds. On 12 and 13 May the local media visited the site and were provided a project briefing, information on the buried ordnance, a demonstration of search activities, and the opportunity to take pictures.
- 6.3 During the course of the project removal activities were conducted on 7.5 days, and a total of 212 ordnance items were recovered from the 2.5 acre site. All of the items recovered were explosively vented, and none were found to contain any explosive or explosive residue. A complete accounting of the ordnance recovered and disposed of is contained in Appendix D.
- 6.4 All personnel and equipment performed satisfactorily. There were no lost work days due to accidents or injuries. One half day was lost due to weather, and two half days were lost to local media interest. More practice ordnance items were located and disposed of than anticipated and the project was completed on schedule. HFA completed all intrusive clearance activities on 20 May, and demobilized the site on 22 May 1998.

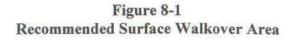
7 CONCLUSIONS

- 7.1 HFA cleared the three grids (Cells A-27, A-28, and A-29) that Parsons ES designated as the practice ordnance burial trench to a depth of four feet. HFA also cleared the area within the four markers placed by NPS in February 1998 to a depth of four feet. HFA placed a network of twelve grids that overlapped these two areas, and cleared them to a depth of four feet.
- 7.2 Based upon the results of HFA's removal activities and CEHNC's QA check of the grids, see Appendix D, a "Certificate of Clearance", can be issued for the 2.41 acres as depicted on the site map at Appendix B.
- 7.3 The daily cooperation, and support provided by Chief Ranger John Burns and all of the NPS personnel at Assateague Island National Seashore were instrumental in the completion of this project and was greatly appreciated.

8 **RECOMMENDATIONS**

- 8.1 Based upon the results of the removal action HFA recommends that no further UXO activities be conducted.
- 8.2 During the removal action, two, 2.25 inch rockets were discovered on the surface, without the aid of a magnetometer. HFA recommends that if any further ordnance items are located on the island, the nearest Park Ranger, or the local National Park Service Office be immediately notified.







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9 **DOCUMENTATION**

- 9.1 SCOPE OF WORK, APPENDIX A
- 9.2 GENERAL SITE MAP, APPENDIX B
- 9.3 SITE SAFETY DOCUMENTATION, APPENDIX C
- 9.4 SITE QUALITY CONTROL DOCUMENTATION, APPENDIX D
- 9.5 DAILY SITE JOURNALS, APPENDIX E
- 9.6 SITE PHOTOGRAPHS, APPENDIX F
- 9.7 SITE VIDEO TAPE, APPENDIX G, (PROVIDED SEPARATELY)
- 9.8 RECORD OF ENVIRONMENTAL CONSIDERATION, APPENDIX H

HUMAN FACTORS APPLICATIONS, INC.



DACA87-95-D-0027 Task Order #0026, Mod 1

FINAL REMOVAL ACTION REPORT

SCOPE OF WORK TIME CRITICAL REMOVAL ACTION ASSATEAGUE ISLAND WORCESTER COUNTY, MARYLAND AND ACCOMACK COUNTY, VIRGINIA

15 APRIL 98

1.0 BACKGROUND AND GENERAL STATEMENT OF WORK: The work required under this Scope of Work (SOW) falls under the Defense Environmental Restoration Program-Formerly Used Defense Sites (DERP-FUDS). Ordnance and Explosive (OE) contamination exists on property formerly owned by the Department of the Army.

1.1 Explosive ordnance is a safety hazard and constitutes an imminent and substantial endangerment to site personnel and the local populace. During this action, it is the Government's intent that the contract or destroy, by detonation, on-site, all OE items encountered. This action will be performed in accordance with (IAW) the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Section 104 and the National Contingency Plan (NCP), Sections 300.120(c) and 300.400(e). In accordance with above, no Federal, State, or Local permits are required for any remedial action taken on this site.

1.2 The provisions of 29 CFR 1910.120 shall apply to all actions taken at this site.

1.2.1 Due to the inherent risk in this type of operation, the contractor shall be limited to a 40-hour work week: either five 8-hour days or four 10-hour days. Unexploded Ordnance (UXO) personnel shall not perform UXO-related tasks for more than 10 hours per day.

1.3 GENERAL DESCRIPTION: This site consists of approximately 17,552 acres: 8,018 acres in Worcester County, Maryland, and 9,534 acres in Accomack County, Virginia. Of that acreage, the U.S. National Park Service (NPS) owns 6,900 acres in Maryland and 205 acres in Virginia that comprise the Assateague Island National Seashore. From 1945 to 1946 or 1947, two areas in Maryland which total 350 acres, were used as practice target ranges, and to a lesser extent, as practice bombing ranges by the U.S. Navy and/or Army Air Corps. During the month of February 1998, 150 OE items washed ashore within Assateague National Park. A March 1995, Site Investigation Report states that all OE items found within Area A during the site investigation were inert munitions scrap, generally in rusted and deteriorated condition. The boundaries of a potential depression were identified in March, 1995 within Area A and is now believed to be the source of all OE washed ashore. The area of concern starts 400 feet from the NE corner of the asphalt parking lot to the SW corner of the area in question and extends 1000 feet thereafter and encompasses all other areas identified by the Navy EOD. A clearance action needs to be performed on approximately 3 to 4 acres of beach within this area. Consequentially from the reemergence of OE, the remaining ordnance at the site may represent a serious OE safety hazard to human health and the environment.

1.3.1 The area from which ordnance related materials are to be removed under this SOW consists of 3 to 4 acres and is comprised of 9 grids and any other area identified by Navy EOD within Area A. The Time-Critical Removal Action (TCRA) area is identified on the attached map which is based on the 1995 report and the February 1998 Navy EOD report.

CONTRACT NUMBER DACA87-95-D-0021, DO-0026

1.4 **DEFINITIONS:** Definitions of applicable terms are found in Section C, paragraph 2.4 of the basic contract.

2.0 OBJECTIVE: Safely locate, identify, and dispose of all surface and subsurface OE located at the TCRA sites to a depth of 4 feet.

3.0 DESCRIPTION OF SERVICES:

3.1 (TASK 1) PERFORM SITE VISIT, PREPARE WORK PLAN (WP) AND PROPERTY EQUIPMENT PLAN: This task shall be accomplished in accordance with Section C, subsection 3.2 of the basic contract.

3.1.1 PERFORM SITE VISIT: Prior to preparation of the Work Plan (WP), the contractor shall coordinate the number of days and any site visit travel plans with the CEHNC-PM. The site visit team shall not exceed three persons, one of whom shall be a Senior UXO Supervisor. The site visit shall include coordination with the local emergency management personnel, local Environmental and Land Management office, Fire Department, law enforcement agencies, local Explosive Ordnance Disposal Detachment (EOD), off-site medical facilities, MedEvac procedures, and local airports to determine FAA restrictions over sites. During the site visit, archaeological resources, environmental concerns, and endangered species in the site areas shall be addressed. No UXO related activities will be performed during the site visit. The contractor shall notify the CEHNC Project Manager, Glenn Earhart (205-895-1577), at least 10 calendar days in advance of the site visit. Using the OVERALL SITE MAP, (exhibit 1) and the site survey, locate and identify each of the boundaries of the TCRA area.

3.1.1.1 DISPOSAL ALTERNATIVES: Based on the site visit, the contractor shall define all feasible alternatives for disposal, and shall recommend the safest and most cost effective method of treatment and disposal of the explosive ordnance, inert ordnance, explosives, and debris. If on-site disposal is not possible, per DID OT-040, a Disposal Feasibility Letter Report shall be forwarded to the Contracting Officer (CO). The method of treatment will be selected and approved by the CO after which the contractor will then proceed with preparation of the WP. See Section C, of the basic contract for detailed requirements.

3.1.2 PREPARE WORK PLAN (WP): The contractor shall prepare and submit a site-specific work plan to the Government for approval prior to beginning any UXO-related activities on site. The WP shall outline the contractor's proposed methodology of accomplishing this Time Critical Removal Action. This shall include site-specific training, UXO-related procedures and practices, equipment, administrative area and equipment, demolition materials and their security and accountability system, personal protective equipment, internal and external communications systems, responsibilities of project personnel, resumes of all UXO personnel and key non-UXO personnel, on-site and off-site medical facilities and emergency response actions, daily work schedule, project time line, UXO safety and site general safety to include snakes, ticks, and other flora and fauna. All UXO related procedures shall comply with *CEHNC Safety Concepts and Basic Considerations for UXO*, 16 February 1996. The WP shall include, as a minimum, the following sub-plans (See Section C, Section 3.0, subsection 3.4, of the basic contract for detailed requirements):

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a. UXO Operational Plan, which will incorporate the Technical and Management Plan without duplicate effort or information.

b. Site-specific Safety and Health Plan (SSHP). The contractor shall submit a SSHP IAW 29 CFR 1910.120 the contractor shall submit a SSHP that contains OE safety standards and procedures.

c. Equipment Plan (EP). The contractor shall prepare and submit a detailed EP (as a WP subplan) describing the equipment to be employed to perform all the necessary operations.

d. Location Survey and Mapping Plan, as detailed in DID OT-020.

e. Environmental Protection Plan (See Section C).

f. Quality Control Plan.

g. Work, Data, and Cost Management Plan.

h. Other subplans identified in Section C, (basic contract) are not required for this delivery order.

3.1.3 In addition to the hard copy distribution as shown in paragraph 4.0 of this SOW, the contractor shall provide two copies of the WP (in Word Perfect) on a 3.5" computer disk, to CEHNC-OE-DG.

3.1.4 The contractor shall submit work schedule and manpower allocation (by task) with the WP. Any assumptions shall be stated and their basis shall be provided.

3.1.5 The contractor shall notify the CEHNC Project Manager at least 10 calendar days in advance of mobilization for field work after the WP is approved by the CO.

3.2 (TASK 2) PERFORM COMMUNITY RELATIONS: This task shall be accomplished in accordance with Section C, of the basic contract.

3.2.1 The contractor when requested, shall assist in conducting a public meeting and a Media day to inform the public of the purpose of the project, the procedures to be followed, and the cooperation requested. The contractor shall propose the methodology to accomplish this task in the WP.

3.2.2 All press releases and media appearances shall be coordinated with, and approved by, the U.S. Army Corps of Engineers District Public Affairs Officer (PAO).

3.2.3 PUBLIC AFFAIRS: The contractor shall not make available or publicly disclose any data generated or reviewed under this contract or at any subcontract unless specifically authorized by the CO and the PAO. When approached by any person or entity requesting information about the subject of this contract, the contractor shall defer to PAO for response. Reports and data generated under this contract shall become the property of the Government, and distribution to any other source by the contractor is prohibited unless authorized by the CO.

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3.3 (TASK 3) PERFORM LOCATION SURVEYS AND MAPPING

CONTRACT NUMBER DACA87-95-D-0027, DO-0026

The Contractor shall perform all location surveys and mapping required to establish boundaries of areas specified in paragraph 1.3 and as required to support the project. During all field and intrusive activities, the survey crew shall perform a UXO survey in each area prior to the surveyors starting work. based on site conditions it is possible that a UXO escort will not be required in all areas at all times after the initial site visit. However, such a decision will be made jointly by the on-site safety officer and the CEHNC Safety Specialist who may rescind or modify it at any time. Grid corners shall be established using precision surveying methods. Each corner of the grid area shall be located by establishing the appropriate state plane grid system to the closest 1 foot and shall be both tabulated and shown on the maps of the site. Other coordinate systems and accuracy specifications are not acceptable and shall not be used. The Contractor shall mark and survey the corners of the designated grids with stakes or other visible temporary markers. Individual locations of recovered UXOs only shall be tape measured or the "x" and "y" distance estimated to obtain a horizontal accuracy of plus or minus one foot from the established grid corners. If subsurface UXOs are encountered, their depth below ground surface shall also be measured. The location of ordnance scrap, ordnance fragments, shrapnel, small arms ammunition and metallic debris shall be recorded only on a "per-grid" basis and not located by coordinates. The use of Total Station, GPS or other precision survey methods to locate individual UXOs, UXO scrap, or geophysical anomalies within a grid shall not be performed. A magnetometer shall be used to survey the location for the establishment of any monument or markers.

3.3.1 Control Points: Wooden hubs shall be used for all basic control points. If any new concrete monuments are established for horizontal control. they shall be established and set flush with the ground, be located within the limits of the project, be set at least 10 meters from the edge of any existing road, and be a minimum of 300 meters apart. Witness posts shall be set within 1 meter of each monument. Horizontal control (1:10,000 and reference to NAD83) and vertical control (1:5,000 and referenced to NAVD88) of "Third Order" or better and based on the metric system using the International Survey foot (One Inch = 25.4 Millimeters (mm) and One meter = 3.2808399 Feet) shall be established for each monument. The aerial targets used to control the photography shall also meet this criteria. All of the control points recovered and/or established at the site shall be plotted at the appropriate coordinate point on the drawings and shall be identified by the name and number and the final adjusted coordinates and elevations. Each new monument shall have a 3 1/4 inch - 3 1/2 inch domed bronze, brass, or aluminum survey marker (cap)set in the top of the monument. The new monuments shall be numbered and stamped in sequence as follows:

ASSAI-1-1998	ASSAI-2-1998	ASSAI-3-1998
USAESCH,HSV	USAESCH,HSV	USAESCH,HSV

The dies for stamping the numbers and letters into these caps shall be 1/8 inch to 3/16 inch in size. All coordinates and elevations shall be closest one-thousandth of a meter (0.001 m) and one-hundredth of a foot (0.01 ft.) All the control points recovered and/or established within the project area shall be plotted at the appropriate coordinate point on a reproducible (Mylar) planimetric map at a scale appropriate to fit on an A-1 size sheet. Each control point shall be identified by name or number, final adjusted coordinates, and final adjusted elevation. A "Description Card" for each monument and a tabulated list of all control points established or used shall be submitted in accordance with (IAW) paragraph 3.4.1 of this SOW.

3.3.1.1 The Description Card shall show a north arrow; a sketch of each monument; its location relative to reference marks, buildings, roads, railroads, towers, etc.; a typed description telling how to locate the monument from a known point; the monument's name or number, and the final adjusted coordinates and elevations (if available) in meters and feet (to the closest 0.001 m and 0.01 ft). The Description Cards shall be five inches by eight inches with one monument per Description Card, or two monuments being described on an eight and a half inch by eleven inch sheet of bond paper. Electronic copies may be provided in electronic format compatible with Microstation (Version 5.0) DGN format.

3.3.1.2 Field Notes. All field notes are to be clearly and precisely recorded in standard field books or in a data recorder, and there are to be no erasures made in these books. All original field books and printouts are to be submitted to CEHNC in accordance with paragraph 4.2, Submittal Schedules.

3.3.2 Digital Data.

3.3.3.1 General Design File Requirements:

3.3.3.1.1 An overall planimetric design file shall be created. The planimetric feature data shall be digitized into an Intergraph Microstation ".dgn" file at an elevation of zero. This file shall contain boundaries, the file name, and coordinates of the area of coverage.

3.3.3.1.2 The individual sheet design files shall have the following salient features:

3.3.3.1.2.1 Each sheet border and sheet-dependent element shall occupy a separate file and be referenced to the planimetric and topographic files.

3.3.3.1.2.2 The fast curve display must be off when digitizing.

3.3.3.1.2.3 Each file shall have a standard metric A-1 size drawing which is 841 mm by 594 mm (33.1 inches by 23.4 inches). Each sheet shall also have a standard border, revision block, title block, complete index sheet layout, bar scale, legend, metric grid lines, grid tick layout, a magnetic north, a grid north, and a true north arrow, and be plotted at a horizontal scale of 1:2,000.

3.3.3.1.2.4 Each file shall be checked by viewing a top view to detect errors in element position.

3.3.3.1.2.5 The cell library used shall be attached.

3.3.3.1.2.6 A list of level assignments utilized shall be submitted. Refer to paragraph 3.4.7, "Digital Format for Intergraph Data Surveying/Mapping", for level assignments and additional information.

3.3.3.1.2.7 No digital data will be accepted until proven compatible with the CEHNC Graphics System. All revisions required to obtain compatibility with the CEHNC Graphics System shall be done at the AE's own expense.

3.3.3.2 Specific Design File Requirements:

3.3.3.2.1 The design file border sheet shall accommodate a scale of 1:2,000. All surface features shall appear in the design file.

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3.3.3.2.2 In accordance with paragraph 4.9, the Government shall be provided with a copy of the design files on 8 mm, 2.3, 5.0 or 10.0 gigabyte magnetic tapes, or 3.5" floppy disks, or approved CD-ROM format. The CD-ROMs are preferred. The data to be submitted shall contain the final, corrected version of the design file. The tapes or disks shall be labeled, showing the project name, project number, date, company name, address and telephone number, and the number of files.

3.3.3 Digital Format for Intergraph Data Survey/Mapping:

3.3.3.1 Sources and Standard: These standards have been developed and produced by the Surveying and Mapping Single Discipline Task Group (SDTG). They are designed for computer assisted mapping methods that must interface with other surveying contractors, Government contractors, and customers so that the final product will be a usable and consistent CADD document.

3.3.3.2 Design File Requirements:

3.3.3.2.1 General. The required data shall be placed into Intergraph Microstation 3D design files.

3.3.3.2.2 Design file units shall be MU = 1 ft, SU = 10th, PU = 10.

3.3.3.2.3. Global Origin. Since most Surveying/Mapping drawings utilize coordinate systems with all positive "X" and "Y" values, the standard origin (0, 0, -21474836.48) to be used for surveying/mapping drawings is zero "X" and "Y" coordinates at the lower left corner of the "X-Y" plane with the "Z" coordinate in the center of the "Z" range. This will allow "X-Y-Z" coordinates from 0, 0, 0 to 42949673, 42949673, 21474836.48 which should be sufficient for the majority of the needs.

3.3.3.2.4 Compress All Design Files: Design files shall be submitted with the entire sheet in view 5 and the title block in view 1. Only views 1 and 5 will be active. All locks will be off except snap, and all displays will be on except text nodes & grid. Fonts 1, 2, 3, 10, 23, 24 and 51 will be downloaded and unused levels will be off.

3.3.3.2.5 Angular data read-out will be degrees, minutes and seconds to one decimal place.

3.3.3.2.6 The use of font #3 (straight up) for spot elevations above the datum (which has its origin as the decimal point of spot elevation) and the use of "slanted font #61" for depths below the datum shall be a standard. If the slant font is not available, the use of "+" for above datum elevations and no sign for elevations below the datum shall be used for hydrographic surveys.

3.3.3.2.7 Each sheet shall be a standard metric A-1 size drawing, have a standard border, revision block, title block, index sheet layout, legend, grid lines and grid tic layout, scale bar, and True North, Grid North, and Magnetic North arrows with the differences between them shown in minutes and seconds. In general the direction of north will run from the bottom of the file to the top with no skew. Note: A standard metric A-1 size drawing is 841 mm by 594 mm (33.1 inches by 23.4 inches).

3.3.3.3 Level Assignments. Level assignments, colors, line weights, and line codes (styles) as shown in Table 1 below shall be used.

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3.3.3.4 Survey-Mapping Drafting Practices:

3.3.3.4.1 A sheet index for the project shall be prepared that includes enough of the planimetric data to indicate the sheet's geographical location in the project, and the location of the sheet relative to all other sheets in the project. The sheet index, showing all sheets in the project, is to be shown in the legend of each sheet, with the current sheet being cross hatched or heavily outlined. If required, a separate file may be utilized for the index.

3.3.3.4.2 All text, except contours will be font #3.

3.3.3.5 Data shall be digitized and furnished to CEHNC in two primary 3D CADD files (planimetric) each being compatible with the other such that the files may be overlaid and used as a reference file. The primary files shall contain all survey data. The individual sheet design files, as required, will use the primary files as a reference and will include the specific information required to plot the individual survey drawing sheets with sheet borders, title, legend, scale bars, and north arrows. All files shall be referenced to NAD83. Two copies of the CD-ROMs containing all the source files required to produce the final drawings shall be provided. The level/feature information in Table 1 shall be used in creating these files.

3.3.3.6 All unique cell libraries, user commands, color tables, menus, etc., created as part of this scope are to be delivered as part of the final submittal. A brief narrative explaining the function and use of each is required. In addition, provide a description of how the individual design files are assembled to produce the final plots; i.e., design file name, reference file name(s), color table, etc.

3.4 (TASK 4) PERFORM OE REMOVAL

This task shall be accomplished in accordance with Section C, of the basic contract.

3.4.1 The contractor shall provide all necessary personnel and equipment or GFE if available and coordinated with the Huntsville Project Manager to perform OE clearance of the SOW stated sites and to dispose of all UXO on-site. This clearance action shall include all OE and all OE related scrap.

3.4.2 The contractor shall propose a planned, systematic approach to search and clear the project sites of OE that will result in optimum search effectiveness. The total acreage to be cleared ranges from 3 to 4 acres. This clearance may include a possible 4 foot trench and 9 150x100 feet grids. This methodology shall be outlined in the WP.

3.4.2.1 The TCRA Site shall be cleared to a depth of 4 feet. If an anomaly is detected below 4 feet, the on-site CEHNC Safety Specialist shall determine if deeper excavation is required. Work schedule should consider the low and high tides for the duration of the project. There are two opportune daily time durations for maximum work productivity on the tidal flat.

3.4.2.2 CEHNC-OE-DG shall provide the contractor with locations of TCRA surface ordnance sites found during the 1995 Site Investigation. All surface OE items shall be destroyed at these locations.

3.4.3 During subsurface operations, the contractor shall utilized a magnetometer capable of detecting a 90mm projectile at a depth of 4 feet.

3.4.3.1 Magnetometers shall be field tested daily to ensure they are operating properly. This shall be accomplished by planting an inert 90mm projectile or similar magnetic inert item to a depth of 4 feet and determining the standard indication. If a magnetometer does not meet the standard during the daily check, it shall be calibrated/repaired or replaced.

3.4.4 All access/excavation/detonation holes shall be backfilled.

3.4.5 The contractor shall maintain a detailed accounting of all OE items/components encountered. This accounting shall include the amounts of OE, the identification and condition, depth located, disposition and location/mapping. This accounting shall be a part of the Removal Report.

3.4.5.1 The accounting system shall also account for all demolition materials utilized to detonate OE on-site.

3.4.6 If a scenario is encountered that precludes the contractor from detonating a UXO on site, an unidentified UXO is located, or suspected toxic chemical munitions are encountered, the on-site CEHNC Safety Specialist shall be notified, who in turn will request EOD Support.

3.5 (TASK 5) TURN-IN OF RECOVERED INERT ORDNANCE AND OE RELATED SCRAP

3.5.1 The contractor shall furnish all necessary personnel and equipment to turn-in all recovered inert ordnance items and ordnance related scrap. This task shall be accomplished as per Section C, of the basic contract.

3.5.2 The contractor shall complete a DD Form 1348-1 as turn-in documentation. Instructions for completing this form are contained in the Defense Utilization and Disposal Manual, DoD 4160.21-M. The Senior UXO Supervisor shall sign the Certificate as follows:

"I certify that the property listed hereon has been inspected by me and, to the best of my knowledge and belief, contains no items of a dangerous nature."

3.5.3 DRMO turn-in documentation receipts shall be submitted as a component of the Removal Report.

3.5.4 Should the servicing DRMO refuse to accept the OE related scrap, the contractor shall make arrangements with a local scrap contractor at no fee to the Government, to pickup the inert scrap material.

3.6 (TASK 6) PERFORM QUALITY CONTROL.

3.6.1 The contractor shall administer a Quality Control (QC) Program to manage, control, and document his own and his subcontractor's activities. The methodology to accomplish this task shall be proposed in the WP. The QC activities shall be documented and included in the Removal Report.

3.6.2 The individual performing the UXO QC shall not be involved in the performance of Task 4 above. UXO QC shall be a separate function and is not envisioned as a full-time position. The UXO QC Specialist shall meet the minimum prerequisites as outlined in Section C, of the basic contract.

3.6.3 The execution of this Task shall conform to the approved Work Plan.

3.7 (TASK 7) PREPARE AND SUBMIT REMOVAL REPORT

The contractor shall accomplish this task in accordance with Section C, of the basic contract. At the conclusion of all field activities, the contractor shall submit a Final Report which shall consist of the following:

3.7.1 All original Surveying and Mapping Data from Task 3.

3.7.2 Detailed accounting by listed area of all UXO and OE related materials located and disposed of.

3.7.3 A system of typed daily journals of all activities associated with this SOW. A daily journal for the site shall be opened upon first arrival for field operations and closed after contractor demobilization at the project site.

3.7.4 A recapitulation of exposure data. This shall include total number of man-hours worked on-site, total motor vehicle mileage, total number of flying hours, and number of flights.

3.7.5 QC documentation.

3.7.6 All DRMO turn-in documentation.

3.7.7 A minimum of 20 4" X 7" (10 X 15cm) color photographs shall be included in the report depicting major action items and UXO discoveries. The original Final Report furnished to CEHNC shall include original photographic prints. Photographs contained in draft submissions and copies of final submissions shall be color reproductions.

3.7.8 Public meeting written record (if public meeting is required).

3.7.9 A financial breakdown by area and task of all costs and labor hours used to perform this SOW.

3.8 CONTRACTOR QUALIFICATIONS:

The contractor shall furnish a staff that is qualified through education, training, and pertinent experience that shall accomplish the objectives and tasks of this SOW. Training requirements under 29 CFR 1910.120(e) apply to this project. See Section C, of the basic contract.

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3.8.1 UXO personnel shall meet the qualifications outlined in Section C of the basic contract. Equipment operators shall be experienced on equipment operated.

3.8.2 Contractor person(s) conducting the Public Meeting shall have experience in public speaking and conducting public meetings.

4.0 SUBMITTALS: The contractor shall furnish copies of the Removal Report, as identified in paragraph 3.7 to each addressee listed below in the quantities indicated. The contractor shall use express mail services for delivering this Removal Report. Following each submission, comments generated as a result of their review shall be incorporated.

ADDRESSEE COPIES US ARMY ENGINEERING AND SUPPORT CENTER, HUNTSVILLE 6 ATTN: CEHNC-OE-DG (MR. GLENN EARHART) PO BOX 1600 **4820 UNIVERSITY SQUARE** HUNTSVILLE, AL. 35807-4301 2 NATIONAL PARK SERVICE PARK RANGER C/O ASSATEAGUE ISLAND NATIONAL SEASHORE 7206 NATIONAL SEASHORE LANE BERLIN, MD 21811 US ARMY ENGINEER DIVISION, NORTH ATLANTIC 2 ATTN: CENAD-FUDS MGR (MS. EILEEN BARRY) 90 CHURCH STREET NEW YORK, NY 10007-2979 5 US ARMY ENGINEER DISTRICT, BALTIMORE ATTN: CENAB-PP-E (MS. SHEILA BLOOM) P.O. BOX 1715 BALTIMORE, MD 21203-1715

4.1 SUBMITTALS AND DUE DATES

SUBMITTAL	DUE DATE
Draft Work Plan	April 19, 1998
Review Draft Work Plan	April 30, 1998
Final Work Plan	May 7, 1998
Approve Work Plan	May 12, 1998
Site Mobilization	May 13, 1998
Remediation	May 15, 1998
Demobilization	June 12, 1998
Draft Removal Report	June 16, 1998
Final Removal Report	July 28, 1998
Completion	August 11, 1998

4.2 Data items Status Report and Telephone/ Conversation Report are due monthly. The original of each of these reports shall be sent within 10 working days of the end of the reporting period by normal mail to:

US ARMY ENGINEER DIVISION, HUNTSVILLE ATTN: CEHNC-OE-DG (Mr. Glenn Earhart) 4820 UNIVERSITY SQUARE HUNTSVILLE, AL 35816-1822

4.3 Project Manager. The designated CEHNC Project Manager for this delivery order referred to in Task 1 is Mr. Glenn Earhart, Ordnance & Explosives Team; telephone 205-895-1577; fax 205-895-1378.

5.0 APPLICABLE REGULATIONS: See Section C, subsection 5.0, of the basic contract.

5.1 AR 385-40 with USACE Supplements, Accident Reporting and Records.

6.0 GOVERNMENT FURNISHED:

6.1 Right-of-entry.

6.2 Pertinent UXO Technical publications as required.

6.3 Project Archive Search Reports and any other available data.

6.4 Availability of government furnished equipment shall be coordinated through the CEHNC Project Manager.

7.0 SPECIAL INSTRUCTIONS:

7.1 During field activities on ordnance projects, hard-hats need not be worn unless a head injury threat is present.

7.2 If UXO is located within a grid during the UXO QA search, the contractor will be required to, again, search and clear the entire grid.

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Memorandum for Record

To:	Glen Earhart
From:	Michael Winningham
CC:	David Frandsen
Date:	05/07/98
Re:	Area of Concern

This MFR is in reference to our telephone conversation on May 5th, in which you were informed that the known OE contaminated area as marked by the National Park Service, is the suspected burial trench. This was determined when the surveyors discovered the northing/eastings for the known OE contaminated area was within a few feet of the northing/eastings of the suspected burial trench. Therefore, based on our conversation, the surveyors have established a grid network that will encompass the burial trench (See Figure 1). Additionally, a 25' buffer to the east and west of the burial trench and a 150' buffer to the south and north of the burial trench has been include into the grid network.

HFA will only perform intrusive activities in those grids that are contaminated with OE, once the limits of the burial trench has been located, HFA will finish searching the grid, but will not search any other grids.

If you have any questions or concerns with this matter, please contact Dave Frandsen or myself at (301) 705-5044.

Michael Winningham

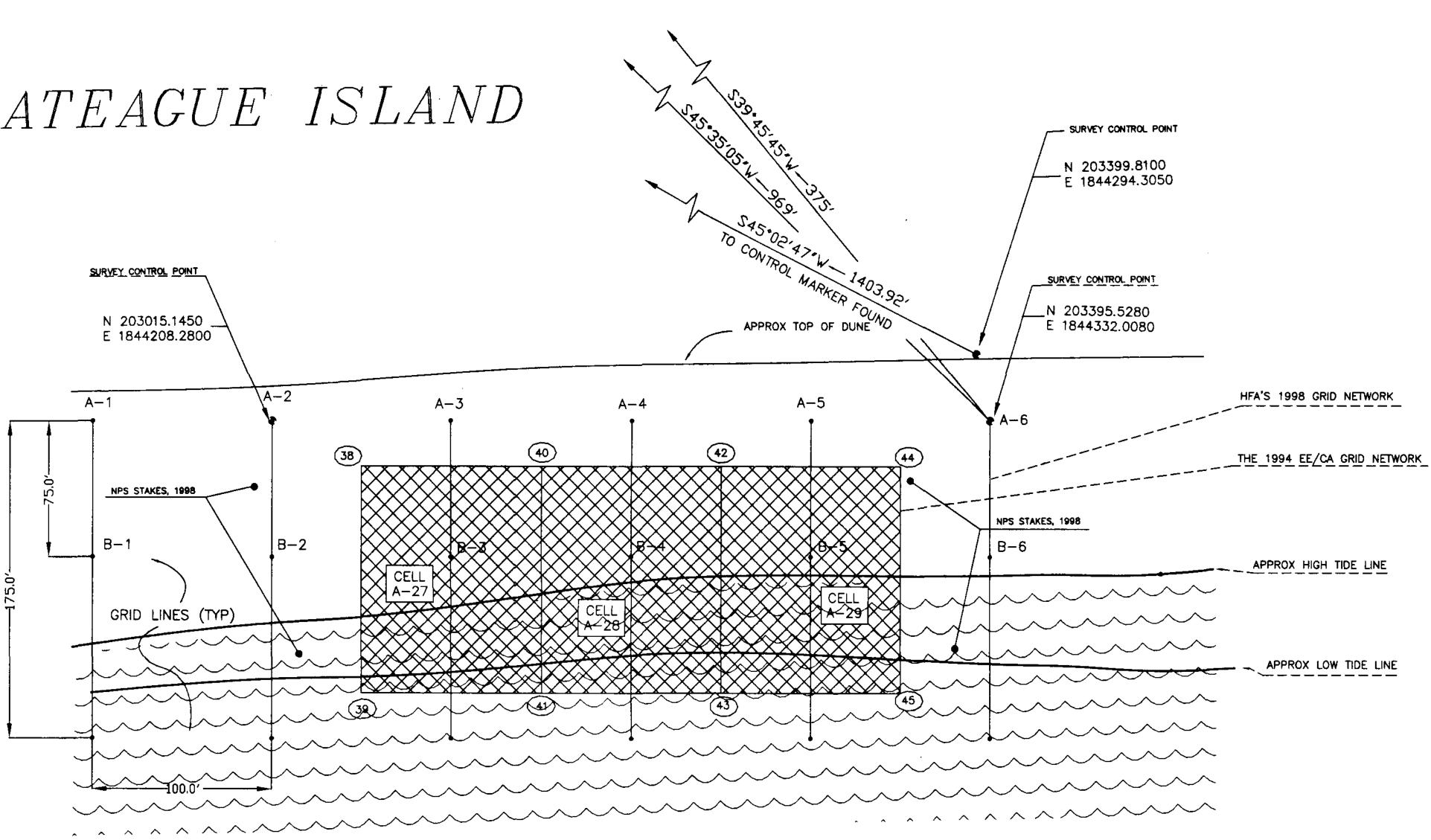
HUMAN FACTORS APPLICATIONS, INC.

Appendix B Site Map

DACA87-95-D-0027 Task Order #0026, Mod 1

FINAL REMOVAL ACTION REPORT

ASSATEAGUE ISLAND



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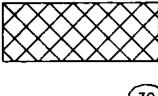
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	1994 GRIDS				
POINT	MD. NAD 83, U	S SURVEY FEET			
NUMBER	NORTHING	EASTING			
38	203054.9600	1844247.5200			
39	203016.3200	1844366.3800			
44	203340.2300	1844340.3100			
45	203301.5900	1844459.1900			

LEGEND

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1994 GRIDS

39 1994 GRID CELL CORNER

ATLANTIC OCEAN

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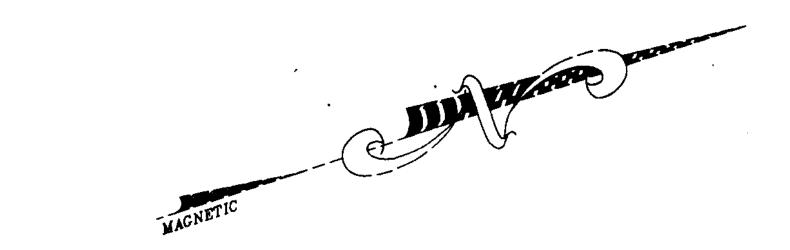
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AREA A & B SURVEY CONTROL					
POINT	MD. NAD 83,	US SURVEY FEET	MD. NAD 8	3, METERS	
NUMBER	NORTHING	EASTING	NORTHING	EASTING	
GPS-7	204898.44	1843741.66	62453.17	561973.58	
IORTH BEACH-2	199313.24	1842219.35	60750.80	561509.58	

.

GRID	NORTHING	EASTING
A1	202920.05	1844177.97
SA	203015.14	1844208.28
A3	203110.24	1844239.21
A4	203205.34	1844270.14
A5	203300.43	1844300.45
A6	203395.52	1844332.01
B1	202896.79	1844248.65
B2	202991.95	1844280.23
B3	203087.04	1844311.16
B4	203182.26	1844340.47
B5	203277,23	1844371.77
B6	203372.33	1844403.95

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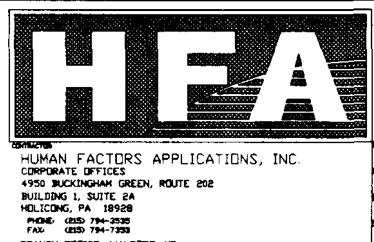
GRAPHIC SCALE

(IN FEET) 1 inch = 40 îL

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REFERENCE: CONTRACT DACA87-95-D-0027 TASK ORDER-0026 DATED MAY. 1998



BRANCH DIFFICE, VALDORF, MD PHONE (301) 705-3044 FAX: (301) 705-7561

ASSATEAGUE ISLAND MARYLAND

INS, INC.	TIME CRITICAL REMOVAL ACTION			
	ASSATEAGUE ISLAN	 		
	U.S. ARMY CORPS OF ENGINEERS, HUNTSVILLE DIVISION			
	DACA87-95-D-0027	#0026		-
AUTOCAD - ASSATLONG	1 INCH = 40 FEET	ISD A1	15 SEPT 1998	NAB 83, ME STATE PLANE

HUMAN FACTORS APPLICATIONS, INC.

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DACA87-95-D-0027 Task Order #0026, Mod 1

FINAL REMOVAL ACTION REPORT

SITE HEALTH AND SAFETY PLAN ACKNOWLEDGEMENT

I have read, understand, and agree to abide by the provisions as detailed in this Site Specific Safety and Health Plan prepared by HFA, Inc. Failure to comply with these provisions may lead to disciplinary action and/or my dismissal from the work site.

Printed Name	Signature	Date
HOMAS C. BIZANDT	J.C. Bult	5-12-98
Facterick J. AllAN Dale E. Alger	Wallow	5-12-88
DAVID A. MISLAR	DIAMies	- 12 MAY 98
Junes S. Wolke Authonychy Moses	A R Way	12 May 98
TONON M. Liels	aux Main	- 12 MAY 98 12 May 98 12 May 98 12 May 98 13 MAY 98
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DATE: 12 May 98	PROJECT: Assateage	ue Island	
SUXOS: Phil Curry	PM: Dave Frandsen		
SSO/QC: Thomas Brandt			
AREA / ITEMS INSPECTED		SAT	UNSAT
Proper work attire (PPE)		SAT	
Vehicle condition		SAT	
Emergency equipment		SAT	
Safe demolition procedures			
Field office, inside			
Field office grounds			
[X] Site Description[X] Work Area Description[X] Work Area Hazards[X] On-Site Emergency[X] Site Evacuation Procedures[X] Emergency Response Personnel[X] Emergency Telephone Numbers[X] Directions to Hospital[] First Aid] Emergency Decontamination] Safe Work Practices - Genera] Site specific OE Safety Preca] Site specific OE Identification] Liquid Contaminates / Landfi] Other	tion /pe ul utions 1 Features 11 Material	
·			
SSO SIGNATURE: MANDA C. By	not		

DATE: 13 May 98	PROJECT: Assateague Island			
SUXOS: Phil Curry	PM: Dave Frandsen			
SSO/QC: Thomas Brandt				
AREA / ITEMS INSPECTED		SAT	UNSAT	
Proper work attire (PPE)		SAT		
Vehicle condition		SAT		
Emergency equipment		SAT		
Safe demolition procedures				
Field office, inside				
Field office grounds				
	· · · · · · · · · · · · · · · · · · ·			
[] Site Description[][] Work Area Description[][] Work Area Hazards[][] On-Site Emergency[][] Site Evacuation Procedures[][] Emergency Response Personnel[][] Emergency Telephone Numbers[][] Directions to Hospital[][] First Aid[][] Heat / Cold Stress[][] Asbestos Awareness & ID[][X] Other ELECTRIC DEMO PROCEI	DURES [X] Other HEAVY	ation Sype Tal autions on Features fill Material	NT	
Comments:				
SSO SIGNATURE: MANIQUE C. B	rud f			

DATE: 14 May 98	PROJECT: Assa	ateague Island	
SUXOS: Phil Curry	PM: Dave Frand	sen	
SSO/QC: Thomas Brandt			
AREA / ITEMS INSPECTED		SAT	UNSAT
Proper work attire (PPE)		SAT	
Vehicle condition		SAT	
Emergency equipment		SAT	
Safe demolition procedures		SAT	
Field office, inside			
Field office grounds			
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
 [X] Last Work Days Events [] Site Description [] Work Area Description [X] Work Area Hazards [] On-Site Emergency [] Site Evacuation Procedures [] Emergency Response Personnel [] Emergency Telephone Numbers [X] Directions to Hospital [] First Aid [] Heat / Cold Stress [] Asbestos Awareness & ID 		lan Location by Type nation General Precautions ication Features Landfill Material	
[] Other <u>SUN BURN</u>			
Comments:			
T -	ρ l_{i}		
SSO SIGNATURE: Woman Co	Durt-	<u> </u>	

DATE: 15 May 98	PROJECT: Assate	eague Island	
SUXOS: Phil Curry	PM: Dave Frandse	en	
SSO/QC: Thomas Brandt			
AREA / ITEMS INSPECTED		SAT	UNSAT
Proper work attire (PPE)		SAT	
Vehicle condition		SAT	
Emergency equipment		SAT	
Safe demolition procedures	· · · · · · · · · · · · · · · · · · ·	SAT	
Field office, inside	· · · · · · · · · · · · · · · · · · ·		
Field office grounds			
[X] Last Work Days Events [] Site Description [] Work Area Description [X] Work Area Hazards [] On-Site Emergency [] Site Evacuation Procedures [] Emergency Response Personnel [] Emergency Telephone Numbers [] Directions to Hospital [] First Aid [] Heat / Cold Stress [] Other	[] Safety Concerns [X] Personnel Protective Ed [] Safe Work Practices [] Emergency Response Pla [] Chemical Hazards [] Emergency Equipment, L [] Emergency Equipment, b [] Emergency Decontamina [X] Safe Work Practices - C [] Site specific OE Safety P [] Site specific OE Identific [] Liquid Contaminates / La [] Other	n Location by Type tion General recautions ation Features andfill Material	
Comments:			
SSO SIGNATURE: Thomas C.V.	Bundt		

DATE: 18 May 98	PROJECT: Assateag	ue Island		
SUXOS: Phil Curry	PM: Dave Frandsen	· · · · · · · · · · · · · · · · · · ·		
SSO/QC: Thomas Brandt				
AREA / ITEMS INSPECTED		SAT	UNSAT	
Proper work attire (PPE)		SAT	L	
Vehicle condition	······································	SAT		
Emergency equipment		SAT		
Safe demolition procedures	·····	SAT		
Field office, inside				
Field office grounds				
[X] Last Work Days Events [X] Safety Concerns [] Site Description [X] Personnel Protective Equipment [X] Work Area Description [X] Safe Work Practices [] Work Area Hazards [] Emergency Response Plan [] On-Site Emergency [] Chemical Hazards [] Site Evacuation Procedures [] Emergency Equipment, Location [] Emergency Response Personnel [] Emergency Equipment, by Type [] Emergency Telephone Numbers [] Emergency Decontamination [] Directions to Hospital [] Safe Work Practices - General [] First Aid [X] Site specific OE Safety Precautions [] Heat / Cold Stress [] Site specific OE Identification Features [] Asbestos Awareness & ID [] Other				
Comments: <u>Observed Track Hoe Operations.</u>				
SSO SIGNATURE: Manine C.C.	andt			

DATE: 19 May 98	PROJECT: Assateage	ue Island	
SUXOS: Phil Curry	PM: Dave Frandsen		
SSO/QC: Thomas Brandt			
AREA / ITEMS INSPECTED		SAT	UNSAT
Proper work attire (PPE)		SAT	
Vehicle condition		SAT	
Emergency equipment		SAT	
Safe demolition procedures		SAT	
Field office, inside			
Field office grounds			
	····· · · · · · · · · · · · · · · · ·		
[X] Last Work Days Events	[] Safety Concerns	L	
[]Site Description	[] Personnel Protective Equipme	ent	
[X] Work Area Description	[X] Safe Work Practices		
	[] Emergency Response Plan		
[] On-Site Emergency	[] Chemical Hazards		
	[] Emergency Equipment, Locat		
	[] Emergency Equipment, by Ty	/pe	
[] Emergency Telephone Numbers	[] Emergency Decontamination	1	
	[] Safe Work Practices - Genera		
	[] Site specific OE Safety Preca		
[] Heat / Cold Stress	[] Site specific OE Identification		
[] Asbestos Awareness & ID	[] Liquid Contaminates / Landn	n waterial	
[] Other	_[] Other		
Comments: <u>Observed teams during clearan</u>	ce, track hoe, and demo operation	<u>ons.</u>	
	·····		
SSO SIGNATURE: Manas CB	<i>.(</i>		
SSO SIGNATURE: Manage L	10mst		

DATE: 20 May 98	PROJECT: As	ssateague Island	
SUXOS: Phil Curry	PM: Dave Fra	ndsen	
SSO/QC: Thomas Brandt			
AREA / ITEMS INSPECTED		SAT	UNSAT
Proper work attire (PPE)		SAT	
Vehicle condition		SAT	
Emergency equipment		SAT	
Safe demolition procedures		SAT	
Field office, inside			
Field office grounds			
	<u> </u>		
 [X] Last Work Days Events [] Site Description [X] Work Area Description [] Work Area Hazards [] On-Site Emergency [] Site Evacuation Procedures [] Emergency Response Personnel [] Emergency Telephone Numbers [] Directions to Hospital [] First Aid [X] Heat / Cold Stress [] Asbestos Awareness & ID 		es e Plan nt, Location nt, by Type mination - General ety Precautions ntification Features / Landfill Material	
	[] Other		
[] Other Comments:			

DATE: 21 May 98	PROJECT: Assateag	ue Island	
SUXOS: Phil Curry	PM: Dave Frandsen		
SSO/QC: Thomas Brandt		·····	
AREA / ITEMS INSPECTED		SAT	UNSAT
Proper work attire (PPE)			
Vehicle condition			
Emergency equipment			
Safe demolition procedures			
Field office, inside			
Field office grounds			
[X] Last Work Days Events [] Site Description	[] Safety Concerns [] Personnel Protective Equipm	ont	
[] Work Area Description	[X] Safe Work Practices	on	
[] Work Area Hazards	[] Emergency Response Plan		
[] On-Site Emergency	[] Chemical Hazards	<i>.</i> .	
[] Site Evacuation Procedures [] Emergency Response Personnel	[] Emergency Equipment, Loca [] Emergency Equipment, by Ty		
[] Emergency Telephone Numbers	[] Emergency Decontamination	-	
[] Directions to Hospital	[] Safe Work Practices - Generation		
[] First Aid	[] Site specific OE Safety Preca		
[] Heat / Cold Stress	[] Site specific OE Identificatio	n Features	
[] Asbestos Awareness & ID	[] Liquid Contaminates / Landf	ill Material	
[] Other	[] Other		
Comments: <u>Scrap turn in and equipment p</u>	oack out.		
$\widehat{}$	/		
SSO SIGNATURE: MANAD C. BAM	At		

DATE: 12 May 98	PROJECT:	: Assateague Island			
SUXOS: Phil Curry	PM: Dave Frandsen				
SSO/QC: Thomas Brandt					
MAG TYPE USED: Schonstedt	MAG SETTING	USED: M	AX		
AREA / ITEMS QC'ed		TEAM	SĄT	UNSAT	
Proper work attire (PPE)		1&2	SAT		
Morning Schonstedt check					
Vehicle condition	·····	1&2	SAT		
Equipment condition	<u></u>	1&2	SAT		
Emergency equipment, first aid kit, burn kit,	fire ext.	1&2	SAT		
Proper grid layout					
Proper search techniques					
Proper use of grubbing equipment					
Compliance with demolition procedures	<u> </u>				
Proper tamping techniques, demo shot					
Team leaders daily paperwork					
Office paperwork					
Mapping and UXO data					
Field office, inside					
Field office grounds					
QCO SIGNATURE: Mara SC	Bundt				

DATE: 13 May 98	PROJECT:	Assateague Island		
SUXOS: Phil Curry	PM: Dave Fra	Frandsen		
SSO/QC: Thomas Brandt				
MAG TYPE USED: Schonstedt	MAG SETTING	USED: M	<u> </u>	
AREA / ITEMS QC'ed		TEAM	SAT	UNSAT
Proper work attire (PPE)		1&2	SAT	
Morning Schonstedt check		1&2	SAT	
Vehicle condition		1&2	SAT	
Equipment condition		1&2	SAT	
Emergency equipment, first aid kit, burn kit,	fire ext.	1&2	SAT	
Proper grid layout		1	SAT	
Proper search techniques		1	SAT	
Proper use of grubbing equipment	·····			
Compliance with demolition procedures				
Proper tamping techniques, demo shot				
Team leaders daily paperwork				
Office paperwork	u,u,			
Mapping and UXO data				
Field office, inside				
Field office grounds				
COMMENTS: Team 2 is the track hoe tear	n. Test source			
was set.				
OCO SIGNATURE: Verna C. B.	and			

DATE: 14 May 98	PROJECT:	OJECT: Assateague Island			
SUXOS: Phil Curry	PM: Dave Frandsen				
SSO/QC: Thomas Brandt					
MAG TYPE USED: Schonstedt	MAG SETTI	NG USED: M	AX		
AREA / ITEMS QC'ed		TEAM	SAT	UNSAT	
Proper work attire (PPE)		1&2	SAT		
Morning Schonstedt check		1&2	SAT		
Vehicle condition		1&2	SAT		
Equipment condition		1&2	SAT		
Emergency equipment, first aid kit, burn kit,	fire ext.	1&2	SAT		
Proper grid layout		1	SAT		
Proper search techniques		1	SAT		
Proper use of grubbing equipment					
Compliance with demolition procedures		1&2	SAT		
Proper tamping techniques, demo shot		1&2	SAT		
Team leaders daily paperwork		1&2	SAT		
Office paperwork					
Mapping and UXO data					
Field office, inside					
Field office grounds					
COMMENTS: The following grid was QC'	d: A-1				
		· · · · · · · · · · · · · · · · · · ·			
OCO SIGNATURE: Montes C.B.	andt				

DATE: 15 May 98	PROJECT: Assateague Island			
SUXOS: Phil Curry	PM: Dave Frandsen			
SSO/QC: Thomas Brandt				
MAG TYPE USED: Schonstedt	MAG SETTING	USED: M	4X	
AREA / ITEMS QC'ed		TEAM	SAT	UNSAT
Proper work attire (PPE)		1&2	SAT	
Morning Schonstedt check		1&2	SAT	
Vehicle condition		1&2	SAT	
Equipment condition		1&2	SAT	
Emergency equipment, first aid kit, burn kit,	fire ext.	1&2	SAT	
Proper grid layout		1	SAT	
Proper search techniques		1	SAT	
Proper use of grubbing equipment				
Compliance with demolition procedures		1&2	SAT	
Proper tamping techniques, demo shot		1&2	SAT	
Team leaders daily paperwork		1&2	SAT	
Office paperwork				
Mapping and UXO data		1&2	SAT	
Field office, inside				
Field office grounds				
COMMENTS: The following grid's were Q	C'd: A-5, A-6			
OCO SIGNATURE: Mumas C. BN	int			

DATE: 18 May 98	PROJECT	: /	Assateag	ju <u>e Isla</u> r	nd
SUXOS: Phil Curry	PM: Dave Frandsen				
SSO/QC: Thomas Brandt					
MAG TYPE USED:	MAG SET	TING U	SED:		
AREA / ITEMS QC'ed			TEAM	SAT	UNSAT
Proper work attire (PPE)			1 &2	SAT	
Morning Schonstedt check			1 &2	SAT	
Vehicle condition			1 &2	SAT	
Equipment condition			1 &2	SAT	
Emergency equipment, first aid kit, burn kit,	fire ext.		1&2	SAT	
Proper grid layout			1	SAT	
Proper search techniques			1	SAT	
Proper use of grubbing equipment					
Compliance with demolition procedures			1&2	SAT	
Proper tamping techniques, demo shot			1&2	SAT	
Team leaders daily paperwork					
Office paperwork					
Mapping and UXO data			1&2	SAT	
Field office, inside					
Field office grounds					
Comments: The following grid's were QC'd: A-2, A-4,					
and B-6.					
QCO SIGNATURE: Manaes C. Brindt					

DATE: 19 May 98	PROJECT:	Assateag	jue Islar	nd
SUXOS: Phil Curry	PM: Dave Frandsen			
SSO/QC: Thomas Brandt				
MAG TYPE USED: Schonstedt	MAG SETTING	USED: M	AX	
AREA / ITEMS QC'ed		TEAM	SAT	UNSAT
Proper work attire (PPE)		1&2	SAT	
Morning Schonstedt check		1&2	SAT	
Vehicle condition		1&2	SAT	
Equipment condition		1&2	SAT	
Emergency equipment, first aid kit, burn kit,	fire ext.	1&2	SAT	
Proper grid layout		1	SAT	
Proper search techniques		1	SAT	
Proper use of grubbing equipment				
Compliance with demolition procedures		1&2	SAT	
Proper tamping techniques, demo shot		1&2	SAT	
Team leaders daily paperwork		1&2	SAT	
Office paperwork				
Mapping and UXO data		1&2	SAT	
Field office, inside		1&2	SAT	
Field office, grounds		1&2	SAT	
Comments: The following grid was QC'd:	Comments: The following grid was QC'd: B-1			
QCO SIGNATURE: Marsus & Brindt				

DATE: 20 May 98	PROJECT:	Assateag	jue Islai	nd
SUXOS: Phil Curry	PM: Dave Frandsen			
SSO/QC: Thomas Brandt				
MAG TYPE USED: Schonstedt	MAG SETT	ING USED: M	AX	
AREA / ITEMS QC'ed		TEAM	SAT	UNSAT
Proper work attire (PPE)		1&2	SAT	
Morning Schonstedt check		1&2	SAT	
Vehicle condition		1&2	SAT	
Equipment condition		1&2	SAT	
Emergency equipment, first aid kit, burn kit, f	ire ext.	1&2	SAT	
Proper grid layout		1	SAT	
Proper search techniques		1	SAT	
Proper use of grubbing equipment				
Compliance with demolition procedures		1&2	SAT	
Proper tamping techniques, demo shot		1&2	SAT	
Team leaders daily paperwork		1&2	SAT	
Office paperwork				
Mapping and UXO data		1&2	SAT	
Field office, inside				
Field office grounds				
Comments: The following grid's were QC'd: A-3, B2, B3,				
B4, and B5. With the tide being lower today an additional				
portion of B-6 was QC'd				
QCO SIGNATURE: Manue C. Brand				

DATE: 21 May 98	PROJE	CT:	Assateag	ue Islar	nd
SUXOS: Phil Curry	PM: Dave Frandsen				
SSO/QC: Thomas Brandt					
MAG TYPE USED: Schonstedt	MAG SI		SED: M	AX	
AREA / ITEMS QC'ed			TEAM	SAT	UNSAT
Proper work attire (PPE)				_	
Morning Schonstedt check					
Vehicle condition					
Equipment condition					
Emergency equipment, first aid kit, burn kit,	fire ext.				
Proper grid layout					
Proper search techniques					
Proper use of grubbing equipment					
Compliance with demolition procedures					
Proper tamping techniques, demo shot					
Team leaders daily paperwork					
Office paperwork					
Mapping and UXO data					
Field office, inside					
Field office grounds					
Comments: Turned in Scrap and packed	equipme	ent.			
OCO SIGNATURE: Mamas C. Br	ndt				

DATE: 5/4/58	PROJECT: Assate	ague Island
SUXOS: Phil Balvocius	PM: Dave Frandse	n
SSO/QC: Thomas Brandt		
	SIGNATURE	ORGANIZATION
Michael Winninghom	Michaelfw-if	HFA
Marke Simmonds	Mark	HFA
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	7	
	n/4	
SSO SIGNATURE: Mielu	Multi-	

DATE: 5/5/98	PROJECT: Assateag	ue Island
SUXOS: Phil Balvocius	PM: Dave Frandsen	
SSO/QC: Thomas Brandt		
	SNATURE	ORGANIZATION
Marke Summands Meh Michael Winningham Micha	Sit-	HFA
Michael Winningham Micha	affilia	HFA
	\land	
SSO SIGNATURE: Michael Juli		
	Γ	

DATE: 5/4/58	PROJECT: Assateag	ue Island
SUXOS: Phil Balvocius	PM: Dave Frandsen	
SSO/QC: Thomas Brandt		
PRINTED NAME SIC	SNATURE	ORGANIZATION
M. Simmonels Mo	13-1-7	HFA
M. Winninghun Mice	uffut in	MFA.
	αργομα ^τ αστολίδα	
		+
)	
SSO SIGNATURE: Machander		
1350 SIGNATURE, J' ACAMPLE		

DATE: 12 May 98	PROJECT: Assateage	ue Island
SUXOS: Phil Curry	PM: Dave Frandsen	
SSO/QC: Thomas Brandt		
PRINTED NAME SIG	INATURE	ORGANIZATION
Dale Alger	letter-	HFA
Fred Allen	alla	HFA
T.C. Brandt	Bart	HFA
Phil Curry Pui	Curry	HFA
Henry Kight	0	HFA
Dave Millar	I A Millen	HFA
Anthony Moses	4 2. Mar	HFA
James Wolf Ar Way		HFA
Mike Slovak Rike S	nel	CEHNC
	ـــــــــــــــــــــــــــــــــــــ	
	<u> </u>	
SSO SIGNATURE: Tomme C.P.		

DATE: 13 May 98	PROJECT: Assateage	ue Island
SUXOS: Phil Curry	PM: Dave Frandsen	
SSO/QC: Thomas Brandt	·	
PRINTED NAME SIG	INATURE	ORGANIZATION
Dale Alger	atol.	HFA
Fred Allen	all 1	HFA
T.C. Brandt	Bank	HFA
Phil Curry Thile	rin	HFA
Henry Kight	1/ 1. Link	HFA
Dave Millar	Des.m.e.	HFA
Anthony Moses	thon h. Mos	HFA
James Wolf	1/1	HFA
Mike Slovak	m	CEHNC
	99 <u>99 99 99 99 99 99 99 99 99 99 99 99 </u>	
	un <u>an an a</u>	
SSO SIGNATURE: Tomas & Ba	adt	<u>4. 1 </u>

DATE: 14 May 98	PROJECT: Assateage	ue Island
SUXOS: Phil Curry	PM: Dave Frandsen	
SSO/QC: Thomas Brandt		
PRINTED NAME SIG	INATURE	ORGANIZATION
Dale Alger	h. gal	HFA
Fred Allen	ad /	HFA
T.C. Brandt	Brandt	HFA
Phil Curry Hil	ann	HFA
Henry Kight	1 Kint	HFA
Dave Millar CTD	Diramie	HFA
Anthony Moses	hittig 2. Mores	HFA
James Wolf M		HFA
Mike Slovak	5.	CEHNC
	·····	
	<u> </u>	
SSO SIGNATURE: hours & Bo	adt	

DATE: 15 May 98	PROJECT: Assateage	ue Island
SUXOS: Phil Curry	PM: Dave Frandsen	
SSO/QC: Thomas Brandt		
PRINTED NAME SIG	SNATURE	ORGANIZATION
Dale Alger	heral-	HFA
Fred Allen	Tala 8	HFA
T.C. Brandt	- Brandt-	HFA
Phil Curry AL	ann	HFA
Henry Kight	na Xicht	HFA
Dave Millar	Deamer	HFA
Anthony Moses	thomas Moz	HFA
James Wolf		HFA
Mike Slovak	the second secon	CEHNC
	- -	
		
SSO SIGNATURE: Themes Care	relt	<u> </u>

DATE: 18 May 98	PROJECT: Assateage	ue Island
SUXOS: Phil Curry	PM: Dave Frandsen	
SSO/QC: Thomas Brandt		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	INATURE	ORGANIZATION
Dale Alger	arul.	HFA
Fred Allen Zaf	all	HFA
T.C. Brandt	Banet	HFA
Phil Curry Phil	wing	HFA
Henry Kight	M. Zight	HFA
Dave Millar	for mee	HFA
Anthony Moses	ory h. More	HFA
James Wolf	1	HFA
Mike Slovak	Ka	CEHNC
SSO SIGNATURE: Troma C. B.	d+	

DATE: 19 May 98	PROJECT: Assateag	ue Island
SUXOS: Phil Curry	PM: Dave Frandsen	
SSO/QC: Thomas Brandt		
PRINTED NAME SIG	INATURE	ORGANIZATION
Dale Alger Dale Co	1	` HFA
Fred Allen		HFA
T.C. Brandt X.C. Bro	<u>-</u> ++-	HFA
Phil Curry thip Cu	m	HFA
Henry Kight Dene	M. Zielt	HFA
Dave Millar	Elen P	HFA
Anthony Moses	the	HFA
James Wolf		HFA
Mike Slovak Mark	N	CEHNC
SSO SIGNATURE: Toma CLB	nit	

DATE: 20 May 98	PROJECT: Assateage	ue Island
SUXOS: Phil Curry	PM: Dave Frandsen	
SSO/QC: Thomas Brandt		
PRINTED NAME SIG	NATURE	ORGANIZATION
Daie Alger Kale	Falon	HFA
Fred Allen	2llan	HFA
T.C. Brandt	Brankt	HFA
Phil Curry thil (un	HFA
Henry Kight Route	11 Zuft	HFA
Dave Millar	YA. Miller	HFA
Anthony Moses http	og 2. More	HFA
James Wolf	Wet	HFA
Mike Slovak	Sm	CEHNC
ί		
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\sim		<u> </u>
SSO SIGNATURE: Memor C. Br-Et		

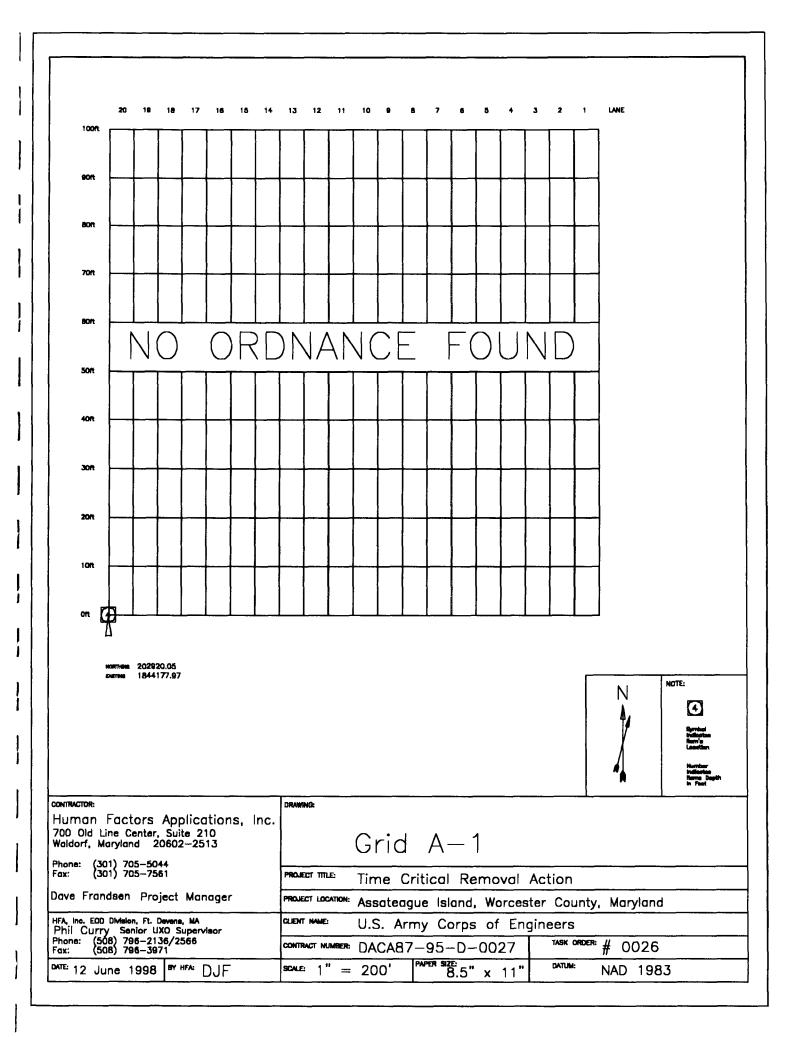
DATE: 21 May 98	PROJECT: Assateag	ue Island
SUXOS: Phil Curry	PM: Dave Frandsen	
SSO/QC: Thomas Brandt		
PRINTED NAME SIG	NATURE	ORGANIZATION
Dale Alger Well & ala		HFA
Fred Allen		HFA
T.C. Brandt		HFA
Phil Curry		HFA
Henry Kight Que de K	ight -	HFA
Dave Millar Jula. Milla		HFA
Anthony Moses the thory h. More		HFA
James Wolf		HFA
Mike Slovak		CEHNC
· · ·		
SSO SIGNATURE: WEMES C.B.	melt	

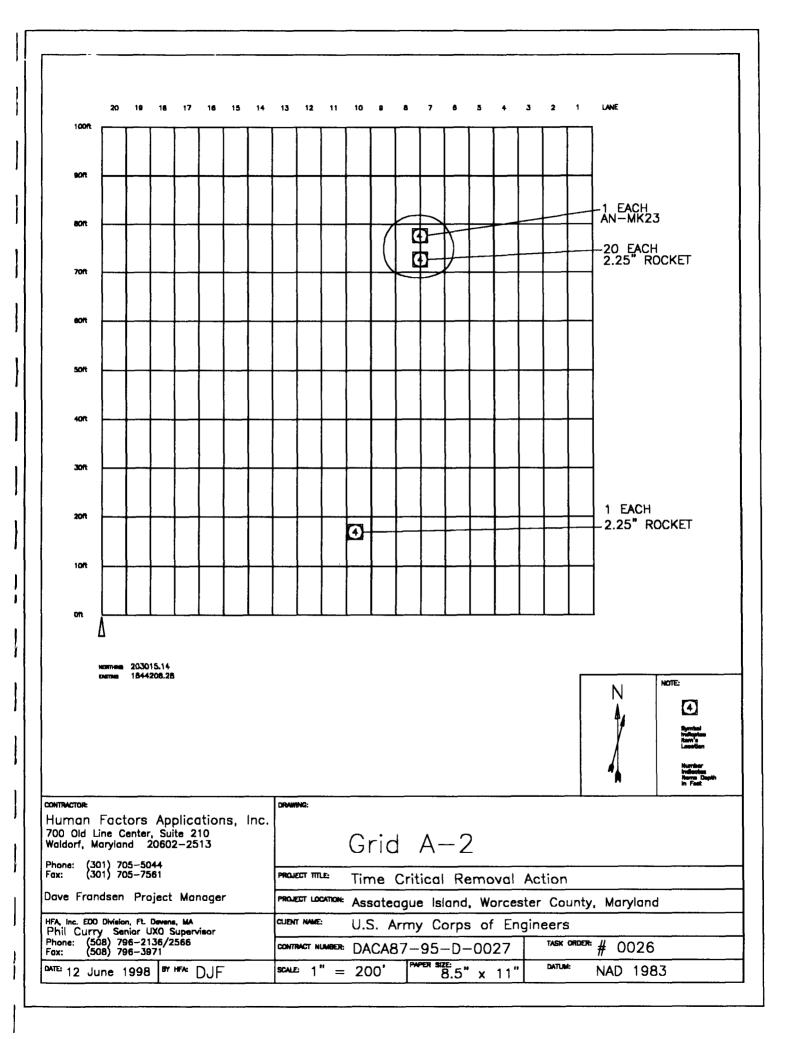
HUMAN FACTORS APPLICATIONS, INC.

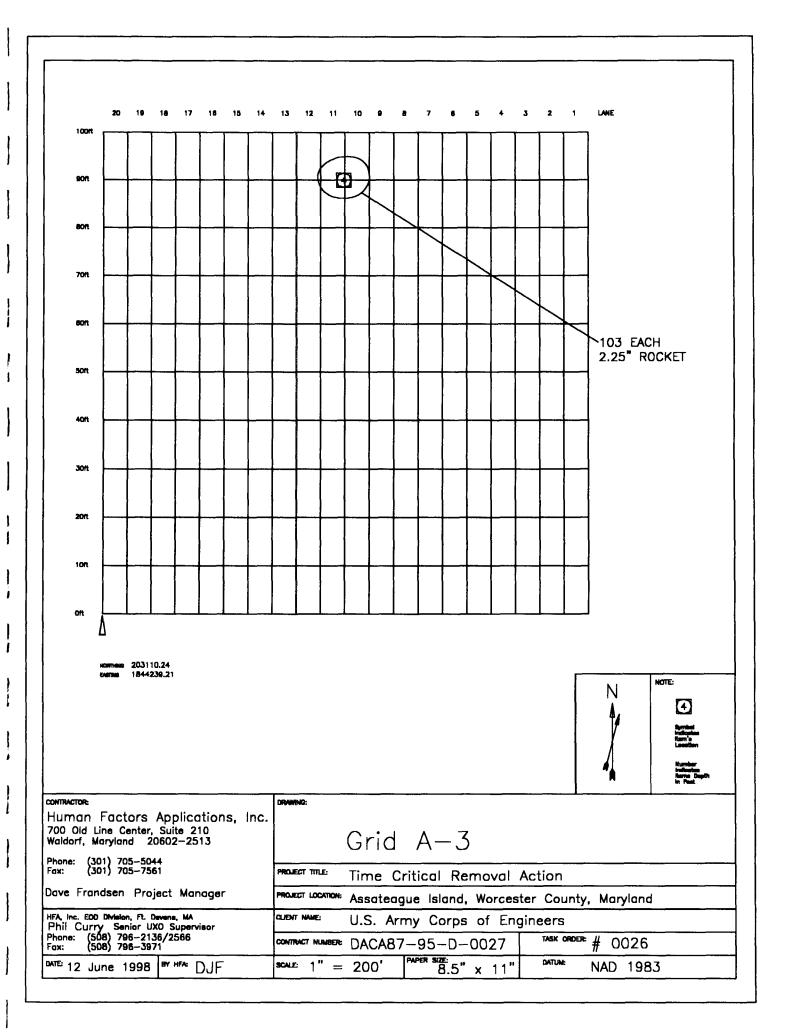
Appendix D Quality Control Documentation

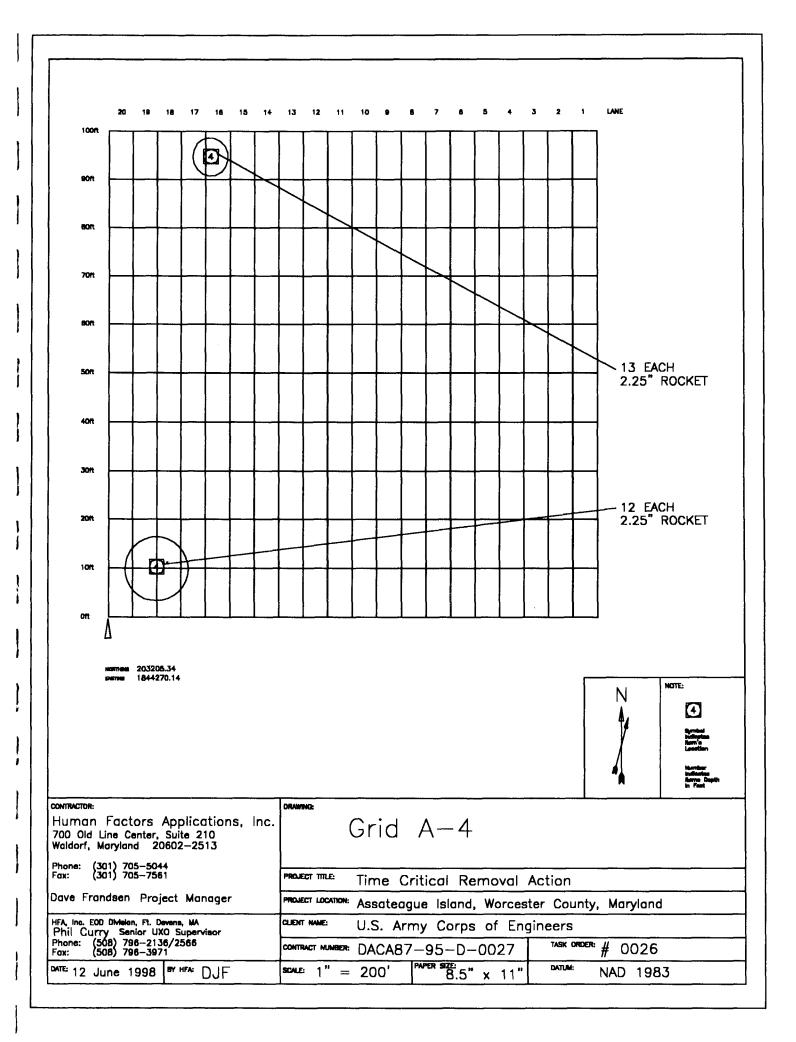
DACA87-95-D-0027 Task Order #0026, Mod 1

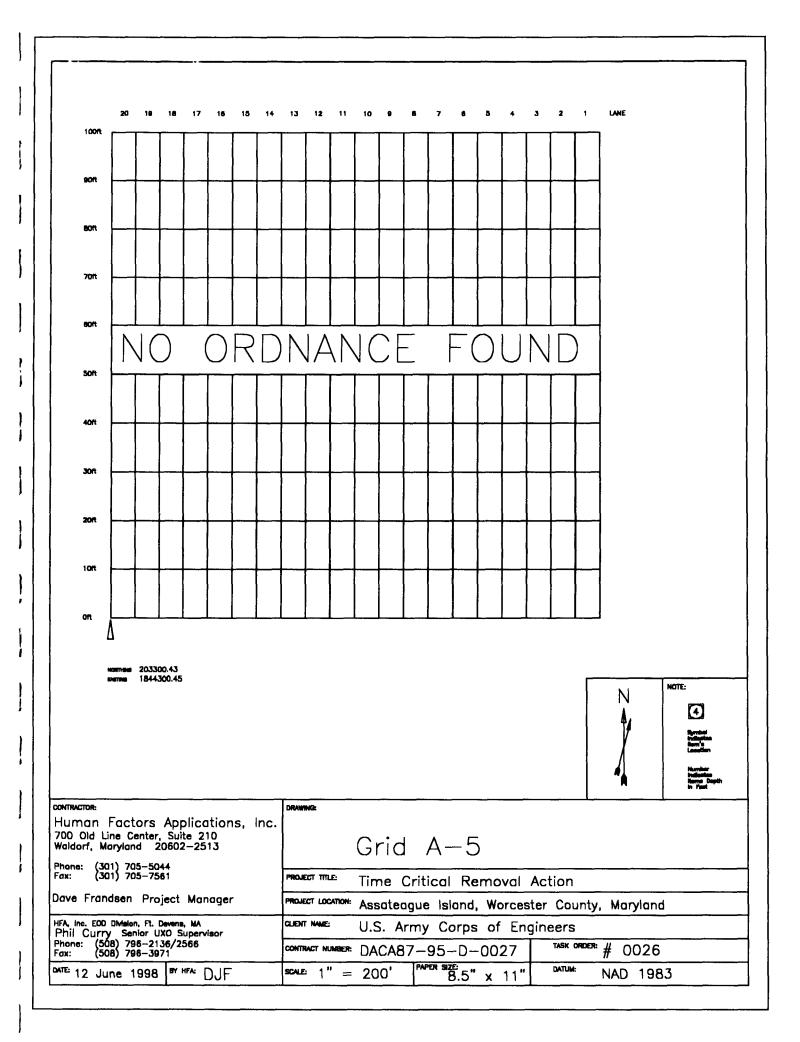
FINAL REMOVAL ACTION REPORT

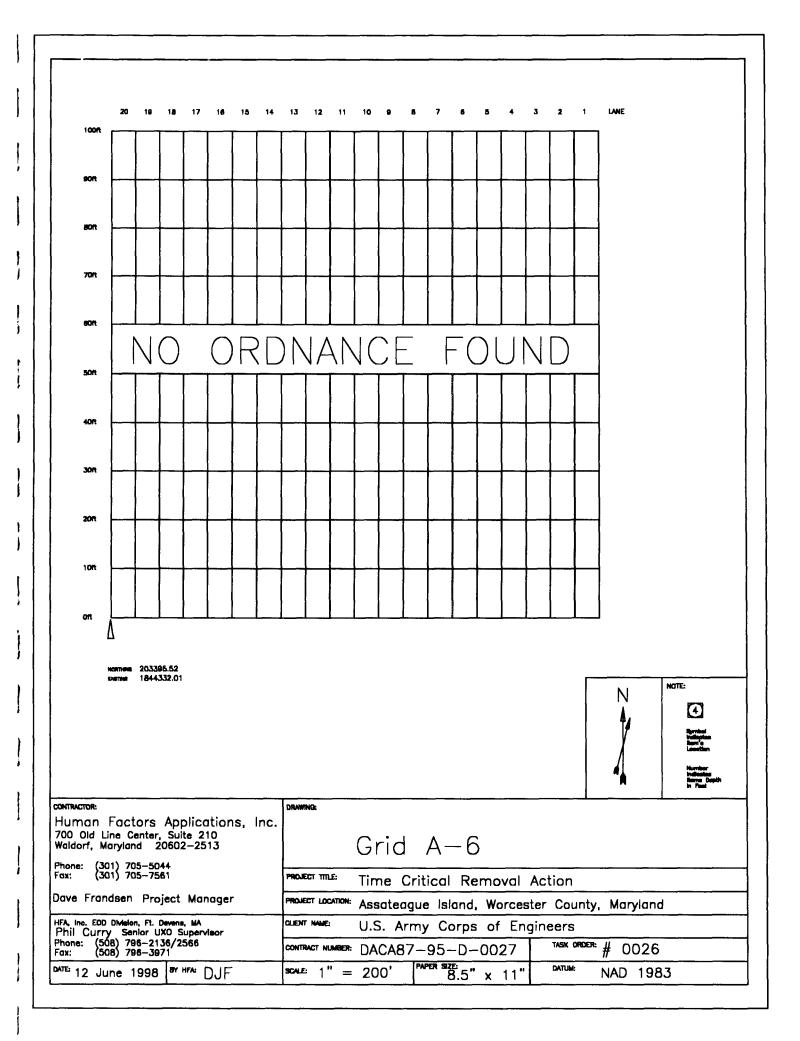


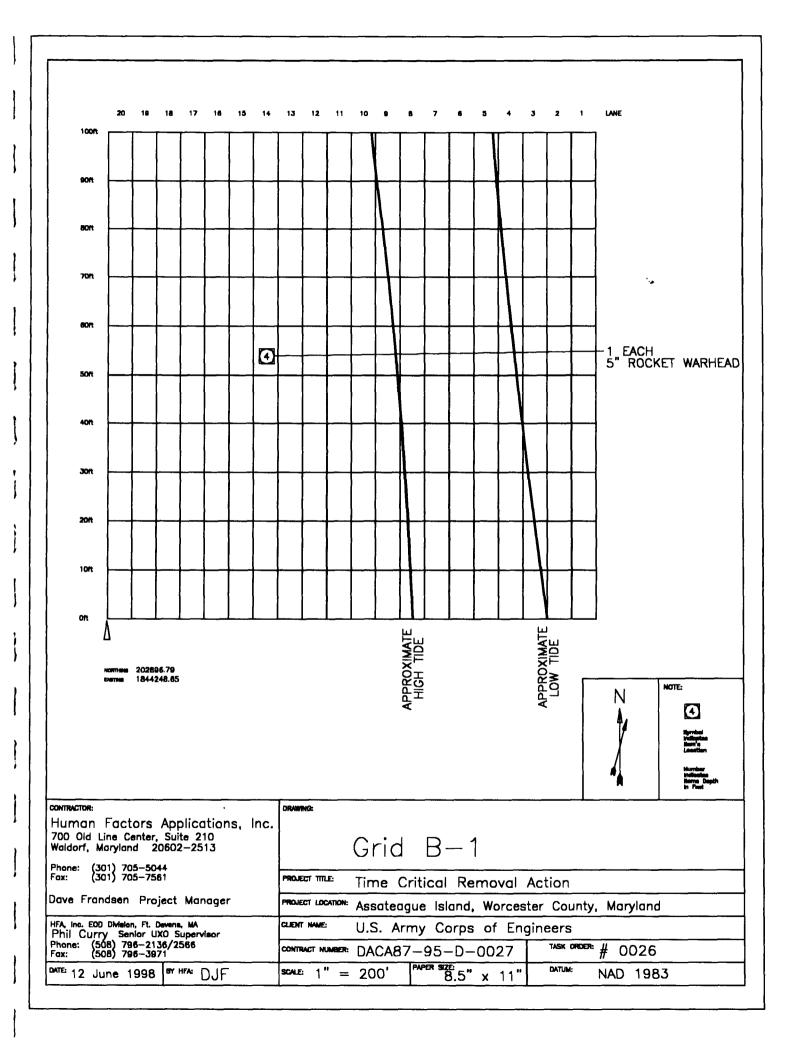


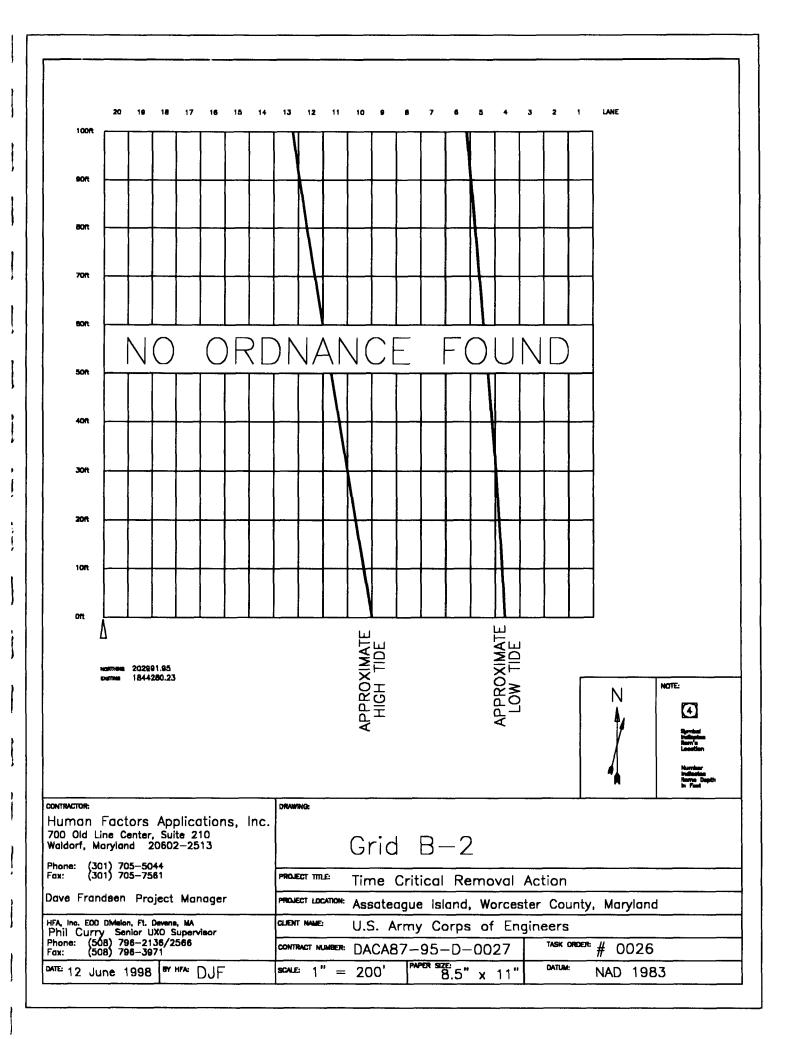


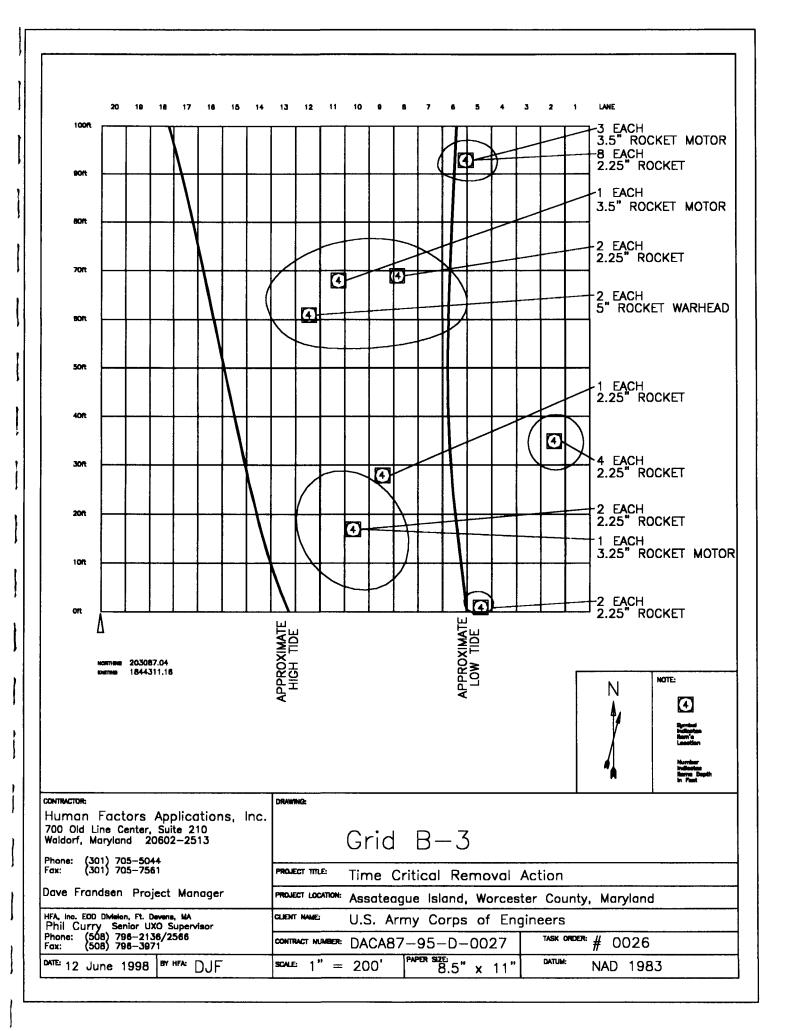


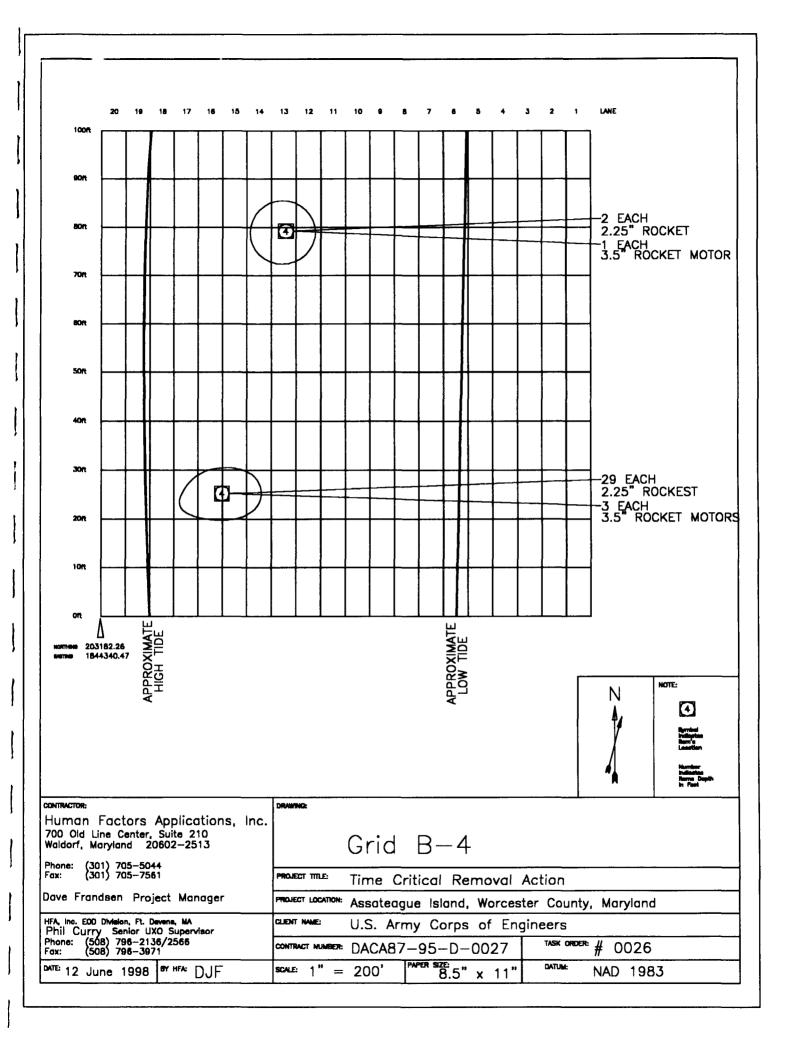


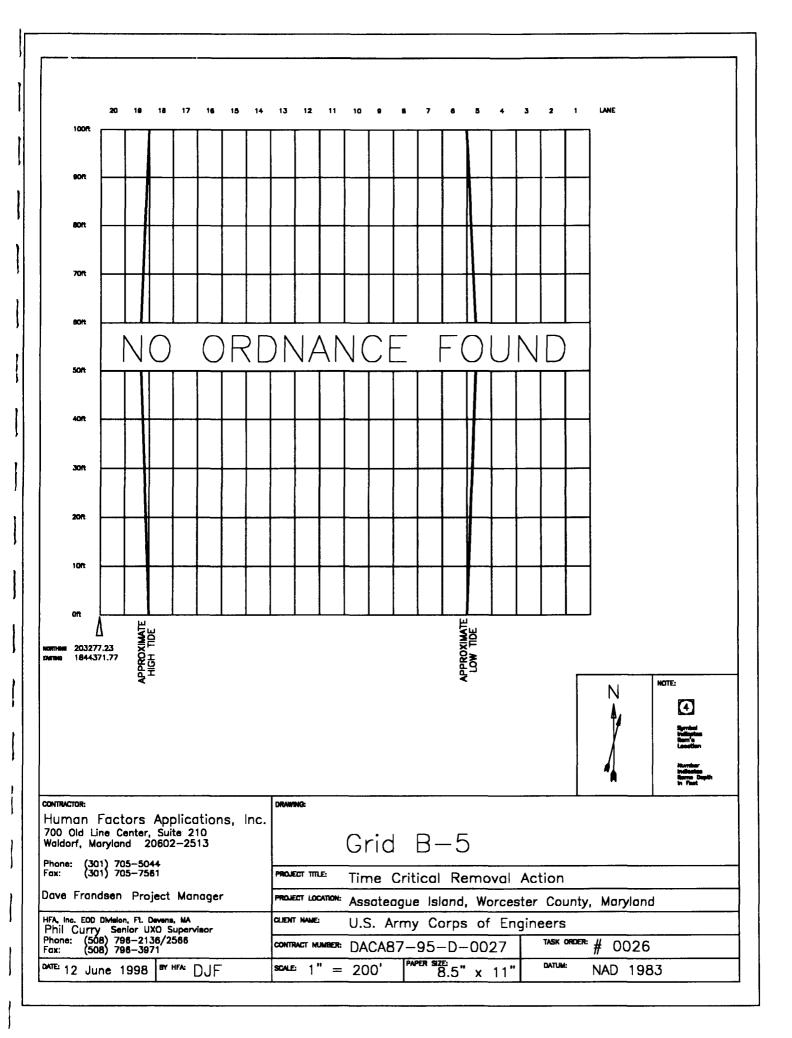


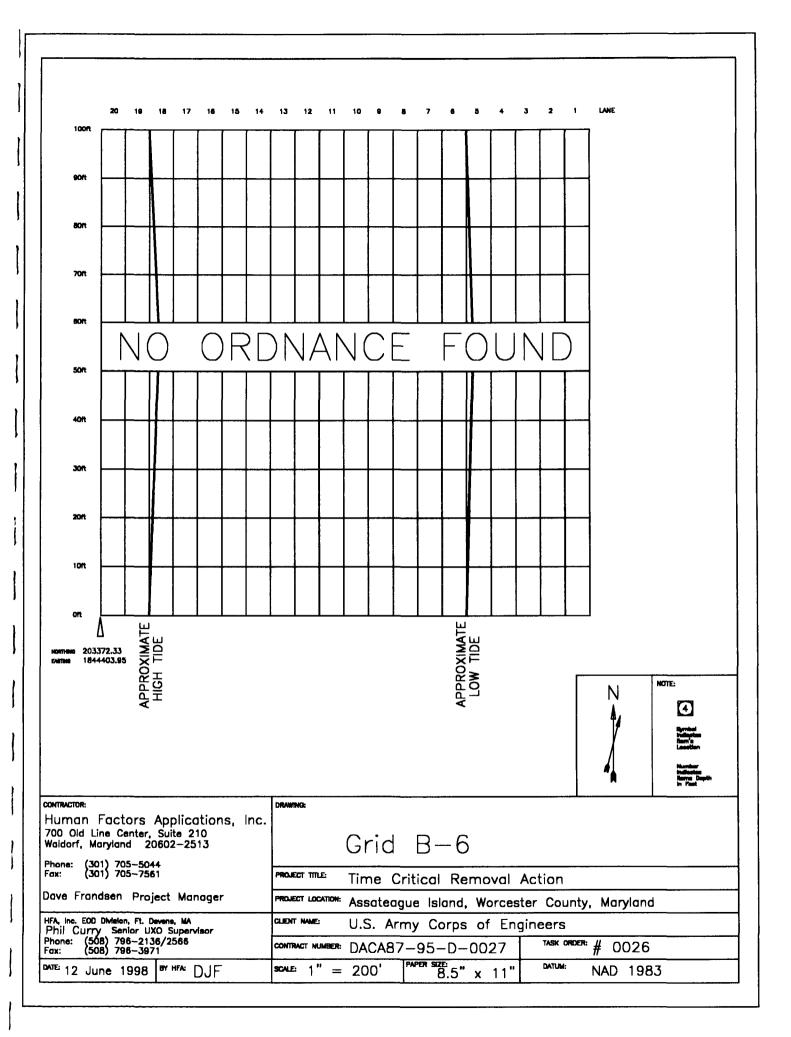












18-Jun-98

UXO Found: 2.25" Rocket Demo Grid: A-1 Comments: Item moved to A-1 X15-20, Y5-20, Z3 Demo Grid: A-1 Comments: Item moved to A-1 X15-20, Y5-20, Z3 Demo Grid: A-1 Comments: Item moved to A-1 X15-20, Y5-20, Z3 Demo Grid: A-1 Date Cleared 5/15/98 Grid: A-4 X 10 Y 10 Z4 BIP No Demo Date: 5/14/9 UXO Found: 2.25" Rocket Demo Grid: A-1 Comments: Item moved to A-1 X15-20, Y5-20, Z3 Date Cleared 5/15/98 Grid: A-4 X 10 Y 10 Z4 BIP No Demo Date: 5/14/9 UXO Found: 2.25" Rocket Demo Grid: A-1 Comments: Item moved to A-1 X15-20, Y5-20, Z3 Date Cleared 5/15/98 Grid: A-4 X 10 Y 10 Z4 BIP No Demo Date: 5/14/9 UXO Found: 2.25" Rocket Demo Grid: A-1 Comments: Item moved to A-1 X15-20, Y5-20, Z3 Date Cleared 5/15/98 Grid: A-4 X 10 Y 10 Z4 BIP No Demo Date: 5/14/9 UXO Found: 2.25" Rocket Demo Grid: A-1 Comments: Item moved to A-1 X15-20, Y5-20, Z3 Date Cleared 5/15/98 Grid: A-4 X 10 Y 10 Z4 BIP No	Date Cleared 5/15/98	Grid : A-4	X 10	Y 10	Z4	BIP No	Demo Date:	5/14/98		
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Date Cleared 5/15/98	Grid:A-4	X 95	Y 20	Z4	BIP No	Demo Date:	5/14/98
UXO Found: 2.25" Rock	Å		1	Demo G		Demo Date.	
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UXO Found: 2.25" Roc		<u> </u>	L	Demo G		I	
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UXO Found: 2.25" Roc	ket		L	Demo G	rid: A-1		
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UXO Found: 2.25" Roci	ket		•	Demo G	rid: A-1	•	
Comments: Item move	ed to A-1 X15-20,	Y5-20, Z3		.4			
Date Cleared 5/15/98	Grid : A-4	X 95	Y 20	Z4	BIP No	Demo Date:	5/14/98
UXO Found: 2.25" Roci	ket		•	Demo G	rid: A-1	······································	
Comments: Item move	ed to A-1 X15-20,	Y5-20, Z3					
Date Cleared 5/15/98	Grid:A-4	X 95	Y 20	Z4	BIPNo	Demo Date:	5/14/98
UXO Found: 2.25" Roci	ket			Demo G	rid: A-1		
Comments: Item move	ed to A-1 X15-20,	Y5-20, Z3					
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UXO Found: 2.25" Roci	ket			Demo G	rid: A-1	•	
Comments: Item move	ed to A-1 X15-20,	Y5-20, Z3					
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UXO Found: 2.25" Roc	ket			Demo G	rid: A-1	• • • • • • • • • • • • • • • • • • • •	
Comments: Item move	ed to A-1 X15-20,	Y5-20, Z3					
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UXO Found: 2.25" Roc	ket			Demo G	rid: A-1		
Comments: Item move	ed to A-1 X15-20,	Y5-20, Z3					
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UXO Found: 2.25" Roci	ket			Demo G	rid: A-1		
Comments: Item move	ed to A-1 X15-20,	Y5-20, Z3					
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UXO Found: 2.25" Roci	ket	·········		Demo G	rid: A-1		
Comments: Item move	ed to A-1 X15-20,	Y5-20, Z3					
Date Cleared 5/15/98	Grid : A-4	X 95	Y 20	Z4	BIP No	Demo Date:	5/14/98
UXO Found: 2.25" Roci	ket			Demo G	rid: A-1		
Comments: Item move	ed to A-1 X15-20,	Y5-20, Z3					
Date Cleared 5/18/98	Grid: A-2	X 75	Y 35	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roci	ket Motors			Demo G	rid: A-6		
Comments: Item move	to A-6 X63, Y10), Z3					

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Date Cleared 5/18/98	Grid:A-2	X 75	Y 35	Z4	BIPNo	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket Warhead			Demo (Grid: A-6		
Comments: Item move	e to A-6 X63, Y1						
Date Cleared 5/18/98	Grid : A-2	X 75	Y 35	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket Motors			Demo (Grid: A-6		
Comments: Item move	e to A-6 X63, Y1	0, Z3					
Date Cleared 5/18/98	Grid: A-2	X 75	Y 35	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket Motors			Demo (Grid: A-6		•
Comments: Item move	e to A-6 X63, Y1	0, Z 3					
Date Cleared 5/18/98	Grid:A-2	X 75	Y 35	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket Motors		• •	Demo (Grid: A-6		
Comments: Item move	e to A-6 X63, Y1	0, Z3					
Date Cleared 5/18/98	Grid: A-2	X 75	¥ 35	Z 4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket Motors			Demo (Grid: A-6		
Comments: Item move	e to A-6 X63, Y10	0, Z3					<u>-</u>
Date Cleared 5/18/98	Grid: A-2	X 75	Y 35	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket Motors		.	Demo (Grid: A-6	•	
Comments: Item move	e to A-6 X63, Y10	0, Z3				······································	
Date Cleared 5/18/98	Grid : A-2	X 75	Y 35	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket Motors		- <u> </u>	Demo (Grid: A-6		
Comments: Item move	e to A-6 X63, Y10	0, Z3					
Date Cleared 5/18/98	Grid: A-2	X 75	Y 35	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket Motors	1	.	Demo (Grid: A-6	1	
Comments: Item move	e to A-6 X63, Y10	0, Z3	·	- I		- <u>2</u>	
Date Cleared 5/18/98	Grid: A-2	X 75	Y 35	Z4	BIP No	Demo Date:	5/18/98
UXO Found: AN-MK2	3		- I	Demo (Grid: A-6	•	
Comments: Item move	e to A-6 X63, Y10	0, Z3					
Date Cleared 5/18/98	Grid : A-2	X 75	Y 35	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket Motors	L,	I	Demo (Grid: A-6	L	
Comments: Item move	e to A-6 X63, Y10	0, Z3				····	
Date Cleared 5/18/98	Grid: A-2	X 75	Y 35	Z4	BIP No	Demo Date:	5/18/98
UXO Found: AN-MK2	<u> </u>				Grid: A-6		
Comments: Item move	e to A-6 X63, Y1	0, Z3					-
Date Cleared 5/18/98	Grid : A-2	X 75	Y 35	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc		.1	. L		Grid: A-6	1	<u> </u>
Comments: Item move		0, Z3		1			
Date Cleared 5/18/98	Grid: A-2	X 75	¥ 35	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	1	1	I		Grid: A-6		
Comments: Item move	····	0. Z3					
		~, ***					

		· · · · · · · · ·					
Date Cleared 5/18/98	Grid : A-2	X 75	Y 35	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket Motors			Demo G	rid: A-6		
Comments: Item mov	e to A-6 X63, Y10), Z3					
Date Cleared 5/18/98	Grid: A-2	X 75	Y 35	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket Motors			Demo G	rid: A-6		
Comments: Item mov	e to A-6 X63, Y10), Z3					
Date Cleared 5/18/98	Grid: A-2	X 75	Y 35	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket Motors			Demo G	rid: A-6		
Comments: Item mov	e to A-6 X63, Y10), Z3					
Date Cleared 5/18/98	Grid: A-2	X 75	Y 35	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket Motors			Demo G	rid: A-6		
Comments: Item mov	e to A-6 X63, Y10), Z3					
Date Cleared 5/18/98	Grid : A-2	X 17	Y4	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket			Demo G	rid: A-6		
Comments: Moved ite	em to A-6 X63, Y	5, Z3				<u></u>	
Date Cleared 5/18/98	Grid: A-2	X 75	Y 35	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket Motors	•	•	Demo G	rid: A-6		
Comments: Item mov	e to A-6 X63, Y10), Z3					
Date Cleared 5/18/98	Grid : A-2	X 75	Y 35	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket Warhead	······		Demo G	rid: A-6	•••••••	
Comments: Item mov	e to A-6 X63, Y10), Z3					
Date Cleared 5/18/98	Grid:B-1	X 54	Y 67	Z2	BIP No	Demo Date:	5/18/98
UXO Found: 5" Rocket	Warhead	<u> </u>	.	Demo G	rid: A-6		
Comments: Item mov	ed to A-6 X70, Y1	15, Z5					
Date Cleared 5/18/98	Grid:B-3	X 69	Y 39	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket	·	4	Demo G	rid: A-6	·	
Comments: Moved ite	m to A-6 X63, Y	5, Z3				······································	
Date Cleared 5/18/98	Grid:B-3	X 35	¥7	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket	L		Demo G	rid: A-6		
Comments: Moved ite	m to A-6 X63, Y	5, Z3					
Date Cleared 5/18/98	Grid:B-3	X 28	Y 42	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket	b	.	Demo G	rid: A-6	<u>1</u>	
Comments: Moved ite	m to A-6 X63, Y	5, Z3				······································	
Date Cleared 5/18/98	Grid:B-3	X 17	Y 4	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 3.25" Roc		L	·	Demo G			
Comments: Moved ite		5, Z3					
Date Cleared 5/18/98	Grid : B-3	X 17	Y 4	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc		L	<u> </u>		rid: A-6		
Comments: Moved ite		5. Z3		1			
						·····	

Date Cleared 5/18/98	Grid:B-3	X 17	Y 4	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket			Demo G	Grid: A–6		
Comments: Moved ite	m to A-6 X63, Y	5, Z3					
Date Cleared 5/18/98	Grid :B-3	X 35	¥7	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket			Demo G	Frid: A-6		
Comments: Moved ite	m to A-6 X63, Y	5, Z3					
Date Cleared 5/18/98	Grid:B-3	X1	¥ 22	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket			Demo G	Frid: A-6	<u> </u>	
Comments: Moved ite	m to A-6 X63, Y	5, Z3					
Date Cleared 5/18/98	Grid:B-3	X 93	Y 25	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 3.25" Roc	ket Motor			Demo G	Frid: A-6		
Comments: Moved ite	m to A-6 X63, Y	5, Z3					
Date Cleared 5/18/98	Grid:B-3	X 93	Y 25	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket	•	•	Demo G	Grid: A-6	•	
Comments: Moved ite	m to A-6 X63, Y	5, Z3					
Date Cleared 5/18/98	Grid:B-3	X 93	Y 25	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket	· · · · · · · · · · · · · · · · · · ·	.	Demo G	Grid: A-6		
Comments: Moved ite	m to A-6 X63, Y	5, Z3		•			
Date Cleared 5/18/98	Grid:B-3	X 93	Y 25	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket	•	<u></u>	Demo G	Frid: A-6	.	
Comments: Moved ite	m to A-6 X63, Y	5, Z3					
Date Cleared 5/18/98	Grid:B-3	X 93	¥25	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket	•	<u>L</u>	Demo C	Frid: A-6		
Comments: Moved ite	m to A-6 X63, Y	5, Z3		··· ··· ······························	•• • • • • • • • • • • • • • • • • • • •	·····	
Date Cleared 5/18/98	Grid:B-3	X 1	Y 22	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket	A	•	Demo C	Grid: A-6	· · · · · · · · · · · · · · · · · · ·	·
Comments: Moved ite	m to A-6 X63, Y	5, Z3		J			
Date Cleared 5/18/98	Grid:B-3	X 69	Y 39	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket		·	Demo C	Grid: A-6	L	
Comments: Moved ite	m to A-6 X63, Y	5, Z3				······	
Date Cleared 5/18/98	Grid:B-3	X 35	Y7	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Roc	ket		L	Demo C	Frid: A-6		
Comments: Moved ite	m to A-6 X63, Y	5, Z3		4			
Date Cleared 5/18/98	Grid:B-3	X 61	¥ 57	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 5" Rocket		L	L		Grid: A-6	.	
Comments: Item Move		20, Z5		1			
Date Cleared 5/18/98	Grid : B-3	X 61	Y 57	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 5" Rocket		1	.		Grid: A-6	1	
Comments: Item Move		20, Z5					

UXO Found: 3.25" Rocke Comments: Item Moved Date Cleared 5/18/98 UXO Found: 2.25" Rocke Comments: Moved item Date Cleared 5/18/98 UXO Found: 2.25" Rocke Comments: Moved item Date Cleared 5/18/98 UXO Found: 2.25" Rocke Comments: Moved item	to A-6 X73, Y2 Grid : B-3 tt to A-6 X63, Y5 Grid : B-3 tt to A-6 X63, Y5 Grid : B-3 t	x 69 , Z3 x 69	Y 54 Y 39 Y 39 Y 39	Z4 Demo G Z4	BIP No Grid: A-6 BIP No Grid: A-6 BIP No Grid: A-6	Demo Date: Demo Date: Demo Date:	5/18/98 5/18/98 5/18/98
Comments: Item Moved Date Cleared 5/18/98 UXO Found: 2.25" Rocke Comments: Moved item Date Cleared 5/18/98 UXO Found: 2.25" Rocke Comments: Moved item Date Cleared 5/18/98 UXO Found: 2.25" Rocke Comments: Moved item	to A-6 X73, Y2 Grid : B-3 tt to A-6 X63, Y5 Grid : B-3 tt to A-6 X63, Y5 Grid : B-3 t	x 69 , Z3 x 69 , Z3	¥ 39	Z4 Demo G Z4 Demo G	BIP No Grid: A-6 BIP No Grid: A-6		
Date Cleared 5/18/98UXO Found: 2.25" RockeComments: Moved itemDate Cleared 5/18/98UXO Found: 2.25" RockeComments: Moved itemDate Cleared 5/18/98UXO Found: 2.25" RockeComments: Moved item	Grid : B-3 tt to A-6 X63, Y5 Grid : B-3 tt to A-6 X63, Y5 Grid : B-3 t	x 69 , Z3 x 69 , Z3	¥ 39	Demo G Z4 Demo G	BIP No Grid: A-6 Grid: A-6		
UXO Found: 2.25" Rocke Comments: Moved item Date Cleared 5/18/98 UXO Found: 2.25" Rocke Comments: Moved item Date Cleared 5/18/98 UXO Found: 2.25" Rocke Comments: Moved item	t to A-6 X63, Y5 Grid : B-3 t to A-6 X63, Y5 Grid : B-3 t	, Z3 X 69 , Z3	¥ 39	Demo G Z4 Demo G	BIP No Grid: A-6 Grid: A-6		
Comments: Moved itemDate Cleared 5/18/98Image: Cleared 5/18/98UXO Found: 2.25" RockeComments: Moved itemDate Cleared 5/18/98UXO Found: 2.25" RockeComments: Moved item	to A-6 X63, Y5 Grid : B-3 tt to A-6 X63, Y5 Grid : B-3 t	X 69	· · · · · · · · · · · · · · · · · · ·	Z4 Demo G	BIP No Grid: A-6	Demo Date:	5/18/98
Date Cleared 5/18/98UXO Found: 2.25" RocketComments: Moved itemDate Cleared 5/18/98UXO Found: 2.25" RocketComments: Moved item	Grid : B-3 tt to A-6 X63, Y5 Grid : B-3 t	X 69	· · · · · · · · · · · · · · · · · · ·	Demo G	Grid: A-6	Demo Date:	5/18/98
UXO Found: 2.25" Rocke Comments: Moved item Date Cleared 5/18/98 UXO Found: 2.25" Rocke Comments: Moved item	to A-6 X63, Y5 Grid : B-3	, Z3	· · · · · · · · · · · · · · · · · · ·	Demo G	Grid: A-6	Demo Date:	5/18/98
Comments: Moved item Date Cleared 5/18/98 UXO Found: 2.25" Rocke Comments: Moved item	to A-6 X63, Y5 Grid : B-3		Y 39				
Date Cleared 5/18/98 UXO Found: 2.25" Rocke Comments: Moved item	Grid : B-3 t		Y 39	Z4			
UXO Found: 2.25" Rocke Comments: Moved item	t	X 69	Y 39	Z4			
Comments: Moved item				-	BIP No	Demo Date:	5/18/98
	to A-6 X63, Y5			Demo G	Grid: A-6		
Date Cleared 5/18/08		, Z3	· . ·				
Date Cleareu 3/10/20	Grid : B-3	X 69	Y 39	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Rocke	t		•	Demo G	Frid: A-6	•	
Comments: Moved item	to A-6 X63, Y5	, Z3					
Date Cleared 5/18/98	Grid:B-3	X 93	Y 25	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Rocke	t		L	Demo G	Grid: A-6	l <u> </u>	
Comments: Moved item	to A-6 X63, Y5	, Z3					
Date Cleared 5/18/98	Grid:B-3	X 35	¥7	Z4	BIP No	Demo Date:	5/18/9
UXO Found: 2.25" Rocke	t		.	Demo C	Grid: A-6	A	
Comments: Moved item	to A-6 X63, Y5	, Z3		<u> </u>			
Date Cleared 5/18/98	Grid:B-3	X 93	¥25	Z4	BIP No	Demo Date:	5/18/98
UXO Found: 2.25" Rocke	t		·	Demo C	Grid: A-6	.	
Comments: Moved item	to A-6 X63, Y5	, Z3		<u></u>			
Date Cleared 5/20/98	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/9
UXO Found: 2.25" Rocke	L			Demo C	Grid: A-6	I	
Comments: Item moved		10, Z3		1			
	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/9
UXO Found: 2.25" Rocke	t	<u></u>	I	Demo C	Grid: A-6	1	
Comments: Item moved		10. Z3		1			
	Grid:A-3	X 90	¥ 50	Z4	BIP No	Demo Date:	5/20/9
UXO Found: 2.25" Rocke			<u> </u>		Grid: A-6		
Comments: Item moved	to A-6 X63, Y	10, Z3		1			
	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/9
UXO Found: 2.25" Rocke			I	Demo C	Grid: A-6		
Comments: Item moved	to A-6 X63, Y	10, Z3				······	
	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/9
UXO Found: 2.25" Rocket Demo Grid: A-6							
Comments: Item moved	to A-6 X63, Y	10, Z3					

Data Cleared 5/20/09		<u>v 00</u>	N 50	Z4	DIDNO	Dama Data	5/20/98
	Grid: A-3	X 90	Y 50		BIPNo	Demo Date:	5/20/90
UXO Found: 2.25" Rock		10 72		Demo C	Grid: A-6		
Comments: Item move		, 	N 50		DIDNIe	D Data	5/20/98
Date Cleared 5/20/98	Grid:A-3	X 90	Y 50		BIPNo	Demo Date:	5/20/90
UXO Found: 2.25" Roc		10.72		Demo C	Grid: A-6		
Comments: Item move					In The		5/20/98
	Grid: A-3	X 90	Y 50	Z4	BIPNo	Demo Date:	5/20/98
UXO Found: 2.25" Rock			•• ••	Demo C	Grid: A-6		
Comments: Item move				1 - 1			E (00 (00
Date Cleared 5/20/98	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roci				Demo C	Grid: A-6		
Comments: Item move					-		
Date Cleared 5/20/98	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roci	ket			Demo (Grid: A-6		
Comments: Item move		10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	¥ 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roci	ket			Demo C	Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Rock	ket			Demo C	G rid: A-6		
Comments: Item move	ed to A-6 X63, Y	10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Rock	ket			Demo (Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	'10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roci	ket		-	Demo (Grid: A-6	••••••••••••••••••••••••••••••••••••••	
Comments: Item move	ed to A-6 X63, Y	'10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Rock	ket			Demo (Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roci	ket		4	Demo (Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roci	. I		I		Grid: A-6		
Comments: Item move		'10, Z3					
	<i>a</i> to <i>n</i> = 0 - <i>n</i> = 0, 1						
Date Cleared 5/20/98	Grid : A-3	X 90	¥ 50	Z4	BIPNO	Demo Date:	5/20/98
	Grid: A-3	X 90	¥ 50		BIP No Grid: A-6	Demo Date:	5/20/98

T			1	T	mmble		5/00/00
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc				Demo G	irid: A-6		
Comments: Item move				T			
Date Cleared 5/20/98	Grid:A-3	X 90	¥ 50	Z 4	BIPNo	Demo Date:	5/20/98
UXO Found: 2.25" Roc				Demo G	Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	710, Z3		_		••••••	
Date Cleared 5/20/98	Grid : A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket			Demo G	Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket			Demo G	rid: A-6		
Comments: Item move	ed to A-6 X63, Y	'10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	¥ 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket			Demo G	rid: A-6		
Comments: Item move	ed to A-6 X63, Y	710, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket		.	Demo G	rid: A-6	• • • • • • • • • • • • • • • • • • • •	
Comments: Item move	ed to A-6 X63, Y	′10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	¥ 50	Z4	BIP No	Demo Date:	5/20/9
UXO Found: 2.25" Roc	ket	· ······		Demo G	rid: A-6		
Comments: Item move	ed to A-6 X63, Y	10, Z3					<u> </u>
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket	L		Demo G	rid: A-6	.	
Comments: Item move	ed to A-6 X63, Y	710, Z3		_ _		· · · · · · · · · · · · · · · · · · ·	
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z 4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket		<u> </u>	Demo C	Grid: A-6	.	
Comments: Item move	ed to A-6 X63, Y	10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	¥ 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket	<u> </u>	L	Demo G	Grid: A-6	I	<u></u>
Comments: Item move		/10, Z3				<u> </u>	<u>-</u>
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/9
UXO Found: 2.25" Roc		L	1		Grid: A-6		
Comments: Item move		'10. Z3		<u> </u>			
Date Cleared 5/20/98	Grid: A-3	X 90	¥ 50	Z4	BIP No	Demo Date:	5/20/9
UXO Found: AN-MK2		L ⁺⁼	L	· · · · · · · · · · · · · · · · · · ·	Frid: A-6		
Comments: Item move		710, Z3		1			
Date Cleared 5/20/98	Grid : A-3	X 90	¥ 50	Z4	BIP No	Demo Date:	5/20/9
UXO Found: 2.25" Roc					Grid: A-6	1	
Comments: Item move	··	/10 73	<u> </u>				
Commences, nem move		10, 23					

Date Cleared 5/20/98	Grid: A-3	X 90	¥ 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	L				Grid: A-6		
Comments: Item move	· · · · · · · · · · · · · · · · · · ·	10, Z3		1		.	
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roci	ket		L	Demo C	Grid: A-6	1	
Comments: Item move	ed to A-6 X63, Y	10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roci	ket	<u></u>		Demo C	Grid: A-6	•	
Comments: Item move	ed to A-6 X63, Y	10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roci	ket			Demo C	Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Rock	ket			Demo C	Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	10, Z3		_			
Date Cleared 5/20/98	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roci	ket			Demo C	Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	10, Z3					
Date Cleared 5/20/98	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roci	ket		Demo (Grid: A-6			
Comments: Item move	ed to A-6 X63, Y	10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	¥ 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Rock	ket			Demo (Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roci	ket			Demo (Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roci	ket			Demo (Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roci	ket			Demo (Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roci	ket			Demo (Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	10, Z3					
Date Cleared 5/20/98	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	JXO Found: 2.25" Rocket Demo Grid: A-6						
Comments: Item move	ed to A-6 X63, Y	10, Z3					

Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roci					Grid: A-6		
Comments: Item move		10, Z3					
Date Cleared 5/20/98	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket		L	Demo C	Grid: A-6	I	
Comments: Item move	ed to A-6 X63, Y	'10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roci	ket			Demo (Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	'10, Z3		-			
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roci	ket			Demo (Grid: A-6	•	
Comments: Item move	ed to A-6 X63, Y	'10, Z3					
Date Cleared 5/20/98	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket			Demo C	Grid: A-6		_
Comments: Item move	ed to A-6 X63, Y	710, Z3					
Date Cleared 5/20/98	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket			Demo (Grid: A-6	• · · · · · · · · · · · · · · · · · · ·	
Comments: Item move	ed to A-6 X63, Y	10, Z3					
Date Cleared 5/20/98	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roci	ket		Demo (Grid: A-6			
Comments: Item move	ed to A-6 X63, Y	'10, Z3					
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UXO Found: 2.25" Roci	ket			Demo (Grid: A-6		
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Date Cleared 5/20/98	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
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Comments: Item move	ed to A-6 X63, Y	'10, Z3					
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UXO Found: 2.25" Roci	ket			Demo (Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	10, Z3					
Date Cleared 5/20/98	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roci	ket			Demo (Grid: A-6		
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Date Cleared 5/20/98	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roci	2.25" Rocket Demo Grid: A-6						
Comments: Item move	ed to A-6 X63, Y	'10, Z3					

Date Cleared 5/20/98	Grid: A-3	X 90	¥ 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc		Λ···	100	↓ <u> </u>	Grid: A-6	Denio Date.	
Comments: Item move		(10, Z 3		_Demo C	Jilu.		
Date Cleared 5/20/98	Grid : A-3	X 90	Y 50	Z 4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc					Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket	L	1	Demo (Grid: A-6	I	V (
Comments: Item move	ed to A-6 X63, Y	710, Z3		-1		<u> </u>	
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket	L	1	Demo (Grid: A-6	<u></u>	
Comments: Item move	ed to A-6 X63, Y	'10, Z3		4		· · · · · · · · · · · · · · · · · · ·	<u> </u>
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UXO Found: 2.25" Roc	ket	L	4	Demo (Grid: A-6	A	
Comments: Item move	ed to A-6 X63, Y	710, Z3					
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UXO Found: 2.25" Roc	ket		-	Demo (Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	'10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket		Demo (Grid: A-6			
Comments: Item move	xd to A-6 X63, Y	710, Z3					
Date Cleared 5/20/98	Grid: A-3	X 9 0	¥ 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 3.25" Roc	ket Motor			Demo (Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	'10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket		_	Demo (G rid: A-6		
Comments: Item move	ed to A-6 X63, Y	'10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 3.25" Roc	ket Motor			Demo (G rid: A-6		
Comments: Item move	ed to A-6 X63, Y	10, Z3					
Date Cleared 5/20/98	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket			Demo (Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	710, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z 4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket			Demo (Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket			Demo (G rid: A-6		
Comments: Item move	ed to A-6 X63, Y	'10, Z3					

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UXO Found: 2.25" Roc				Demo (Grid: A-6		
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Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIPNo	Demo Date:	5/20/98
UXO Found: 2.25" Roc				Demo C	Grid: A-6		
Comments: Item move		· · · · · · · · · · · · · · · · · · ·				r	
Date Cleared 5/20/98	Grid : A-3	X 90	¥ 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	·			Demo (Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	/10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket			Demo (Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	/10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket			Demo (Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	(10, Z3		<u> </u>			
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UXO Found: 3.25" Roc	ket Motor	•	•	Demo (Grid: A-6	·····	
Comments: Item move	ed to A-6 X63, Y	/10, Z3				······································	
Date Cleared 5/20/98	Grid: A-3	X 90	¥ 50	Z4	BIPNo	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket	A	A	Demo (Grid: A-6	• · · · · · · · · · · · · · · · · · · ·	
Comments: Item move	ed to A-6 X63, Y	(10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket			Demo (Grid: A-6		
Comments: Item move	ed to A-6 X63, Y	/10, Z3		1			
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc			ļ	Demo (Grid: A-6		
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Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc					Grid: A-6	Denie Duter	
Comments: Item move		(10, Z3			Jiiu	·····	
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UXO Found: 2.25" Roc	1		1.00		Grid: A-6	Demo Date.	
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Date Cleared 5/20/98	Grid : A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc				+	Grid: A-6	Denio Date.	0,20,00
Comments: Item move		/10 73					
Date Cleared 5/20/98	Grid : A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	1	A 30	1.00		Grid: A-6	Demo Date:	5,20,30
		/10 72		pemo (
Comments: Item move		10, 23					

Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc		<u> </u>	100	Demo G		Demo Date.	0.20.00
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UXO Found: 2.25" Roc	<u></u>	A	1	Demo G		Denio Date.	
Comments: Item move		(10, Z3		Demo G			
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc		L	L	Demo G			
Comments: Item move	ed to A-6 X63, Y	10, Z3				-48-70	
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket		L	Demo G	rid: A-6		
Comments: Item move	ed to A-6 X63, Y	'10, Z3					
Date Cleared 5/20/98	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roci	ket	1		Demo G	rid: A-6		
Comments: Item move	ed to A-6 X63, Y	710, Z3		•			
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket		•	Demo Grid: A-6			
Comments: Item move	ed to A-6 X63, Y	'10, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket			Demo Grid: A-6			
Comments: Item move	xd to A-6 X63, Y	′10, Z3					
Date Cleared 5/20/98	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket			Demo G	rid: A-6		
Comments: Item move	ed to A-6 X63, Y	710, Z3					
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket			Demo Grid: ^{A-6}			
Comments: Item move	ed to A-6 X63, Y	710, Z3			_		
Date Cleared 5/20/98	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket			Demo G	rid: A-6		
Comments: Item move	ed to A-6 X63, Y	710, Z3					
Date Cleared 5/20/98	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Rocket			Demo Grid: ^{A-6}				
Comments: Item move	ed to A-6 X63, Y	710, Z3					
Date Cleared 5/20/98	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Rocket				Demo Grid: A-6			
Comments: Item move	ed to A-6 X63, Y	710, Z3					
Date Cleared 5/20/98	Grid:A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Rocket				Demo G	rid: A-6		
Comments: Item move	ed to A-6 X63, Y	710, Z3					

Date Cleared 5/20/98	Grid: A-3	X 90	¥ 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc		L	1		 Frid: A-6		
Comments: Item moved to A-6 X63, Y10, Z3							
Date Cleared 5/20/98	Grid:A-3	X 90	Y 50	Z 4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket		.	Demo G	rid: A-6		
Comments: Item move	ed to A-6 X63, Y	710, Z3					
Date Cleared 5/20/98	Grid : A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket		•	Demo G	rid: A-6		
Comments: Item move	ed to A-6 X63, Y	710, Z3		.			
Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket	·		Demo G	rid: A-6	.	
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Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket			Demo G	rid: A-6	•	
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UXO Found: 2.25" Roc	ket		-	Demo G	Frid: A-6	•	
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Date Cleared 5/20/98	Grid: A-3	X 90	Y 50	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket		• · · · · ·	Demo G	Frid: A-6		
Comments: Item move	ed to A-6 X63, Y	710, Z3					
Date Cleared 5/20/98	Grid : B-4	X 25	¥ 25	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket			Demo G	rid: A-6	•	
Comments: Item move	ed to A-6, X63, Y	10, Z3					
Date Cleared 5/20/98	Grid : B-4	X 79	Y 38	Z3	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket			Demo Grid: A-6			
Comments: Item move	ed to A-6, X63, Y	710, Z3					
Date Cleared 5/20/98	Grid : B-4	X 25	Y 25	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket			Demo Grid: A-6			
Comments: Item move	ed to A-6, X63, Y	'10, Z3					
Date Cleared 5/20/98	Grid : B-4	X 25	Y 25	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Rocket				Demo Grid: A-6			
Comments: Item move	ed to A-6, X63, Y	'10, Z3					
Date Cleared 5/20/98	Grid : B-4	X 25	Y 25	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Rocket				Demo Grid: ^{A-6}			
Comments: Item move	ed to A-6, X63, Y	710, Z3					
Date Cleared 5/20/98	Grid:B-4	X 25	Y 25	Z4	BIP No	Demo Date:	5/20/98
UXO Found: 2.25" Roc	ket			Demo Grid: A-6			
Comments: Item move	ed to A-6, X63, Y	/10, Z3					

Date Cleared 5/20/98	Grid:B-4	X 25	¥ 25	Z4	BIP No	Demo Date:	5/20/98	
UXO Found: 2.25" Rocket				Demo Grid: ^{A-6}				
Comments: Item move	ed to A-6, X63, Y	'10, Z3						
Date Cleared 5/20/98	Grid:B-4	X 25	¥25	Z4	BIP No	Demo Date:	5/20/98	
UXO Found: 2.25" Roci	ket	_		Demo (Grid: A-6			
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Date Cleared 5/20/98	Grid:B-4	X 25	¥25	Z4	BIP No	Demo Date:	5/20/98	
UXO Found: 2.25" Rocket				Demo (Grid: A-6			
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Date Cleared 5/20/98	Grid:B-4	X 25	Y 25	Z4	BIP No	Demo Date:	5/20/98	
UXO Found: 2.25" Roc	ket			Demo (Grid: A-6			
Comments: Item move	ed to A-6, X63, Y	10, Z3						
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UXO Found: 2.25" Roc	ket			Demo (Grid: A-6	• · · · · · · · · · · · · · · · · · · ·		
Comments: Item move	ed to A-6, X63, Y	10, Z3		•				
Date Cleared 5/20/98	Grid:B-4	X 25	Y 25	Z4	BIP No	Demo Date:	5/20/98	
UXO Found: 2.25" Roci	ket	L		Demo Grid: ^{A-6}				
Comments: Item move	ed to A-6, X63, Y	10, Z3		•				
Date Cleared 5/20/98	Grid:B-4	X 25	¥25	Z4	BIP No	Demo Date:	5/20/98	
UXO Found: 2.25" Roci	ket	-		Demo (Grid: A-6	•		
Comments: Item move	ed to A-6, X63, Y	10, Z3						
Date Cleared 5/20/98	Grid:B-4	X 79	Y 38	Z3	BIP No	Demo Date:	5/20/98	
UXO Found: 3.25" Roci	ket Motor			Demo (Grid: A-6			
Comments: Item move	d to A-6, X63, Y	10, Z3						
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UXO Found: 2.25" Roci	ket			Demo Grid: ^{A-6}				
Comments: Item move	ed to A-6, X63, Y	10, Z3						
Date Cleared 5/20/98	Grid:B-4	X 25	¥25	Z4	BIP No	Demo Date:	5/20/98	
UXO Found: 3.25" Rock	ket Motor			Demo Grid: A-6				
Comments: Item move	ed to A-6, X63, Y	10, Z3						
Date Cleared 5/20/98	Grid:B-4	X 25	¥25	Z4	BIP No	Demo Date:	5/20/98	
UXO Found: 3.25" Roc	ket Motor			Demo Grid: A-6				
Comments: Item move	ed to A-6, X63, Y	10, Z3						
Date Cleared 5/20/98	Grid : B-4	X 25	Y 25	Z4	BIP No	Demo Date:	5/20/98	
UXO Found: 3.25" Rocket Motor				Demo Grid: A-6				
Comments: Item move	ed to A-6, X63, Y	10, Z3						
Date Cleared 5/20/98	Grid:B-4	X 25	Y 25	Z4	BIP No	Demo Date:	5/20/98	
UXO Found: 2.25" RocketWarhead				Demo Grid: ^{A-6}				
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UXO Found: 2.25" Rocket				Demo Grid: A-6				
Comments: Item move	ed to A-6, X63,	Y10, Z3						



Recyclers Since 1936 Dealers In Scrap Iron, Metals & Paper

P.O. Box 1978 • Salisbury, MD 21802-1978 Phone 410/546-1111

WEIGHT CERTIFICATE

DATE 5-21-98
MAKE OF CHEUY
LICENSE NO. NY TAG HERTZ RENTAL
TEM SCEAF ORDNANCE
B/L
REMARKS NO VALLE
Gross Wt. 5,980
Tare Wt. 5300
Net Wt. 680
THIS IS TO CERTITY THE ABOVE WEIGHTS ARE TRUE AND CORRECT.
WEIGHMASTER
W. M. LICENSE NO.
FORM H. D -18 (REV. 6/96)

Delmarva Recycling, Inc.

Recyclers Since 1936 Dealers In Scrap Iron, Metals & Paper

P.O. Box 1978 • Salisbury, MD 21802-1978 Phone 410/546-1111

WEIGHT CERTIFICATE

DATE 5-21-98
MAKE OF CHEVY
LICENSE NO. PATAG
ITEM SCRAP ORBNANCE
B/L
REMARKS NO UNLUE
Gross Wt. 63110
Tare Wt. 5050
Net Wt. 1250
THIS IS TO CERTITY THE ABOVE WEIGHTS ARE TRUE AND CORRECT.
WEIGHMASTER

W. M. LICENSE NO.

FORM H. D.-18 (REV. 6/96)

U.S. ARMY ENGINEERING AND S ORDNANCE AND E ME			INTSVILLE	U.S	S. ARMY ENGINEERI ORDNAN	NG AND SUPPOF		JNTSVILLE
TO: HFA, INC.		TE: MAY 98	time: 1600	то:	HTA, INC.		DATE: 19 MAY 98	TIME: 1630
CONTRACT NUMBER: DACA 87-95-D-0027 DO #: 0026	PROJECT LC		CAND,		NTRACT NUMBER: CA-87-95-D-C #: 0026		CT LOCATION: EACUE ISC, MD	ЯNД
Work Plan Safety Violation Safety Comments DESCRIPTION: THE FOLL A GOVERNMENT QA A-4, A-5, A-6 (5 C	CH/ECK RIOS TO: TCCOWS with contract so USACE Site I	Control	4-2 s requested.		UBJECT ITEM(S) Work Plan Safety Violation Safety Comments ESCRIPTION: 774E CRID B1: 774E THE SW CORNER W GRNER. GRI ROM THE SW COR ROM THE SW COR ROM THE NW COR ROM THE NW COR	FOLLOWING F CONERNMENT G WESTERN G + THEWESTERN D BG: THE NER + THE M RUER (Z PARTIN OMPLIANCE USACE USACE ED: MANAL (S	A CHECK: 7 FEET FR U 68 FEET FR WESTERN 2 UCSTORN 27 11 GRIDS)-	STATION THE 8 FEET FECT s requested.
ACTION TAKEN:				AC	TION TAKEN:			
						4		
CEHNC FORM 948 (Revised) - ()()???) - I APR 96	• Comracior'	2 R. p. 950.	ntativə	CEH 1 AP		COPY 1 - Contra	ctor's Represe	ntative

	DATE: 20 MMY 98 TLOCATION: MCUE ISLAN	TIME: 1630
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	CRID SE CRID SE ALL MER CADINC E CORNER NEW AREA with contre	Quality Control Quality Control Other CRID SECTIONS PASSED ALL MEASUREMENTI AR CADING EAST. CORNER DISTANCE FROM 43' 34' NEW ANEA SUPP & GC'd 7 with contract specifications is USACE Site Representative Contractor's Representative

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المراجعة المحمد الم

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U.S. ARMY ENGINEERING AND ORDNANCE AND			NTSVILLE				
TO: HFA, INC.		DATE: 2011AY 98	time: 1630				
CONTRACT NUMBER: DACA-87-95-D-0027	ACA-87-95-D-0027 ASSATEACUE ISLAND,						
DO #: 0026	MO MO						
SUBJECT ITEM(S) (Check all that apply): Work Plan Quality Control Safety Violation Other Safety Comments Other DESCRIPTION: THE FOLLOWINK CRID PACED A COVERNMENT QA CHECK: ASY ONE CRID ToTAL Follows							
Prompt correction or compliance with contract specifications is represented. USACE Site Representative RECEIPT ACKNOWLEDGED: Monos Compatibility Contractor's Representative							
ACTION TAKEN:							
CEHNC FORM 948 (Revised) COPY 1 1 APR 96	Contra	ctor's Represe	ntative				

CERTIFICATE FOR SCRAP TURN IN

Date:	21	May	98	

To: HD Metal Company

Address:	909 Boundry Street

Salisbury, MD 21801

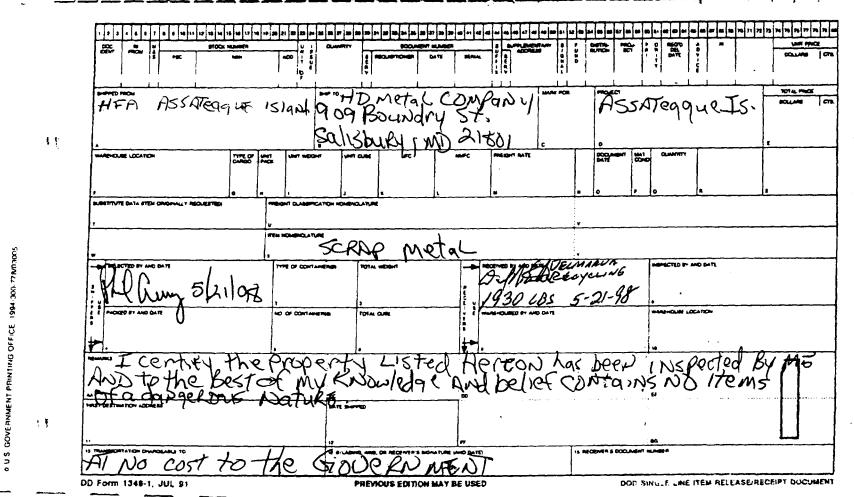
(410)546-1111

Dear Sir:

In regard to the turn-in of recovered ordnance, ammunition, and explosives related scrap and target related scrap the following applies:

In compliance with the basic contract between HFA, Inc and the U.S. Army Corps of Engineers, Huntsville Division, the following statement is provided.

"I certify that the property listed hereon has	been inspected
by the following personnel:	
T.C. Brandt June C. Am	Site Safety Officer,
Phil Curry Del Curry	_Senior UXO Site Supervisor
Dale Alger Alde Cafe	_UXO Team Leader
Fred Allen	UXO Team Leader
Henry Kight Cena d. Tal	UXO Specialist
Dave Millar DIA Milla	_UXO Specialist
Anthony Moses Chithon 2 Those	_UXO Specialist
James Wolfe An With	UXO Specialist
and to the best of our knowledge and items of a dangerous nature".	belief, contains no



HUMA	N FACTORS APPLICA		SITE AND GRID NUMBER Assateague Island A-1			
DATE	14 May 98	ISSUE DOCUMEN SER. # 01	Т			
ITEM	MANUFACTURE	NOMENCI	LATURE	LOT NUMBER	QUANTITY CONSUMED	
1	ENSIGN BICKFORD	CORD, DETONA	ATING	11-11-97	40 FT	
2	HALLIBURTON	CHARGES, SHA	PED	10-2-97	45	
3	HALLIBURTON	CAPS, ELECTRI	C	09SE96R7	2	
			1			
			······································			
	l					
			G OFFICIAL			
	IFY THAT I SAW THE G DEMOLITION ON	E ABOVE ITEMS CO (INDICATE DATE			5/14/98	
	(TYPED OR PRINTED) CURRY		SIGNATURE	Pallu	h	
HUMA	N FACTORS APPLICA	TIONS, INC.	POSITION S	UXOS	0	

HUMA	N FACTORS APPLICA		SITE AND GRID NUMBER Assateague Island A-6			
DATE	15 May 98	Т				
ITEM	MANUFACTURE	NOMENCI	LATURE	LOT NUMB		QUANTITY CONSUMED
1	ENSIGN BICKFORD	CORD, DETONA	ATING	11-11-97		60 FT
2	HALLIBURTON	CHARGES, SHA	PED	10-2-97		70
3	HALLIBURTON	CAPS, ELECTRI	С	09SE96R	.7	2
		· · · · · · · · · · · · · · · · · · ·				
		CERTIFYIN	G OFFICIAL			
	IFY THAT I SAW THI G DEMOLITION ON	E ABOVE ITEMS CO (INDICATE DATE		D	DATE	5/15/9\$
	(TYPED OR PRINTED) CURRY		SIGNATURE	HA-C (Zu	iy.
HUMA	N FACTORS APPLICA	TIONS, INC.	POSITION S	UXOS		D

HUMA	N FACTORS APPLICA	ATIONS, INC.	SITE AND GRID NUMBER Assateague Island A-6					
DATE	18 May 98	ISSUE DOCUMEN SER. # 03	Т	Γ				
ITEM	MANUFACTURE	NOMENCI	LATURE	LOT NUMBER	QUANTITY CONSUMED			
1	ENSIGN BICKFORD	CORD, DETONA	ATING	11-11-97	85 FT			
2	HALLIBURTON	CHARGES, SHA	PED	10-2-97	59			
3	HALLIBURTON	CAPS, ELECTRI	C	09SE96R7	2			
		CEDTIENIN	COFFICIA					
	IFY THAT I SAW TH G DEMOLITION ON	CERTIFYIN E ABOVE ITEMS CO (INDICATE DATE	NSUMED	LDATI	5/18/98			
	(TYPED OR PRINTED) CURRY		SIGNATURE	Thil Cu	uz			
HUMA	N FACTORS APPLICA	TIONS, INC.	POSITION		0			

HUMA	N FACTORS APPLICA	TIONS, INC.		SITE A	ND GRI	D NUMBER
			Assatea	igue Isla	nd A-6	
DATE	19 May 98	Т				
ITEM	MANUFACTURE	NOMENCI	LATURE	LC NUM		QUANTITY CONSUMED
1	ENSIGN BICKFORD	CORD, DETONA	ATING	11-11-	97	140 FT
2	HALLIBURTON	CHARGES, SHA	PED	10-2-9	7	37
3	HALLIBURTON	CAPS, ELECTRI	С	09SE9	6 R 7	4
		·····				
L						
LCEDT			G OFFICIAL		DATE	
	IFY THAT I SAW THI G DEMOLITION ON	INDICATE DATE			DATE	5/19/98
	(TYPED OR PRINTED) CURRY		SIGNATURE	Thil	Cu	\sim
HUMAI	N FACTORS APPLICA	TIONS, INC.	POSITION SU			0

HUMA	N FACTORS APPLICA	SITE AND GRID NUMBER Assateague Island A-6				
DATE	20 May 98	ISSUE DOCUMEN SER. # 05	T			
ITEM	MANUFACTURE	NOMENCI	LATURE	LO' NUMI		QUANTITY CONSUMED
1	ENSIGN BICKFORD	CORD, DETONA	ATING	11-11-9	7	175 FT
2	HALLIBURTON	CHARGES, SHA	PED	10-2-97		69
3	HALLIBURTON	CAPS, ELECTRI	C	09SE96	R7	40
				+		
			<u> </u>			
			<u> </u>			
	1	CERTIFYIN	G OFFICIAL			1
	IFY THAT I SAW THI G DEMOLITION ON	E ABOVE ITEMS CO (INDICATE DATI			DATE	5/20/92
	(TYPED OR PRINTED) CURRY		SIGNATURE	The	Cu	r /
HUMA	N FACTORS APPLICA	TIONS, INC.	POSITION S			0

HUMAN FACTORS APPLICATIONS, INC.



FINAL REMOVAL ACTION REPORT

SUXOS DAILY JOURNAL

DATE: 5/22	2/98		PR	PROJECT: ASSATEAGUE ISLAND						
SUXOS: P	HIL CURRY			SS	O: T.C.]	BRANDT				
			QQ	C: T.C. I	BRANDT					
TOTAL GR	IDS CLEARE	D: 0	тс	TAL EX	CAVATIO	NS:	<u> </u>			
TOTAL UX	0:		тс	TAL SCI	RAP:					
MAG TYPE	: SCHONST	EDT GA5	M	AG SETT	ING: MA	x				
CLIENT: C	EHNC		CC	DNTRAC	F: DACA8	87-95-D-0027				
FIELD OPE	RATION TIM	E: 5		G	GOV'T. DELAY TIME: 0					
WEATHER:	PARTLY CL	OUDY	4	TE	TEMPERATURE: 88					
GRIDS	TOTAL OE	TOTAL	BIP	SMALL	TOTAL	NON-OE	HAZMAT	B/H		
CLEARED	SCRAP	UXO	Y/N	ARMS	DIGS	SCRAP	LOCATED	REQ		
COMMENTS All personnel SUXOS SIG	demobed from	the site. SI	<u>N</u>	<u>X turned i</u>	n magazino	es and vehi	cles.			

Page 1 of 1

SUXOS DAILY JOURNAL

DATE: 5/4/98 SUXOS: PHIL CURRY TOTAL GRIDS CLEARED: 0 TOTAL UXO: MAG TYPE: SCHONSTEDT GA52-C CLIENT: CEHNC						PROJECT: ASSATEAGUE ISLAND					
						D: T.C.	BRANDT				
						: T.C.	BRANDT				
						TAL EX	CAVATIC	DNS:			
						TAL SCI	RAP:				
						G SETT	ING: MA	X			
						NTRAC	Г: DACA	87-95-D-0027			
FIELD OPE	RATION TIM	E: 8			GO	V'T. DE	LAY TIM	E: 0			
WEATHER:	CLOUDY/SF	IOWERS			TE)	MPERAT	TURE: 68				
GRIDS	TOTAL OE	TOTAL	BIP	SMAI	LL	TOTAL	NON-OE	HAZMAT	B/H		
CLEARED	SCRAP	UXO	Y/N	ARM	IS	DIGS	SCRAP	LOCATED	REQ		
John Burns (1 storage. Rece 2 ea. Ford F1	S: Mike Winnir National Park S ived the follow 50 pickup truck NATURE:	ervice Chie ing vehicles (s, John De	f Ran and	ger). R heavy e	lece equ	eived equipipment: G	pment and MC Astro	placed in temp Van from Ente	orary		

Page 1 of 1

SUXOS DAILY JOURNAL

DATE: 5/5/	98		PR	PROJECT: ASSATEAGUE ISLAND						
SUXOS: P	HIL CURRY			SS	O: T.C.	BRANDT				
				QC	C: T.C. I	BRANDT				
TOTAL GRIDS CLEARED: 0 TOTAL UXO:					TAL EX	CAVATIO	DNS:			
					TAL SCH	RAP:				
MAG TYPE	: SCHONST	EDT GA5	2-C	M	AG SETT	ING: MA	X			
CLIENT: C	EHNC		_	CC	DNTRAC	Γ: DACA8	87-95-D-0027			
FIELD OPE	RATION TIM	E: 10		GC	OV'T. DEI	LAY TIM	E: 0			
WEATHER:	;			TE	MPERAT	TURE:				
GRIDS	TOTAL OE	TOTAL	BIP	SMALL	ALL TOTAL NON-OE HAZMAT B/H					
CLEARED	SCRAP	UXO	Y/N	ARMS	DIGS	SCRAP	LOCATED	REQ		
grounding pro network for the that the coorce burial trench. CEHNC Proj- facts, it was do north and sou	S: Surveyor's o otection was ins he known conta linates for the k The surveyors ect Manager (M letermined that th of a hundred l out seventy-fiv	talled by A minated are nown conta verified tha fr. Glenn E the grid net feet. The g	ET E ea. V amina at the arhar work grid n	lectric. S While setti ation area known c known c t) was no t will over etwork w	Surveyors s ng the con was the sa ontaminate tified of the rlay the bur as complet	tarted estain trol points, me as the operation of area was e findings. trial trench operation	blishing the gri the surveyors coordinated for the burial tren Based on the with a buffer to r, the eastern b	d noticed the hch. The new o the		

Page 1 of 1

Page 1 of 1

SUXOS DAILY JOURNAL

DATE: 5/6/	98		PR	PROJECT: ASSATEAGUE ISLAND						
SUXOS: P	HIL CURRY			SS	0: T.C. 1	BRANDT				
				QC	C: T.C. I	BRANDT				
TOTAL GR	IDS CLEARE	D: 0		тс	TAL EX	CAVATIO	NS:			
FOTAL UX	0:		тс	TAL SCH	RAP:					
MAG TYPE	: SCHONST	EDT GA5	M	AG SETT	ING: MA	X				
CLIENT: C	EHNC			СС	DNTRAC	F: DACA8	87-95-D-0027			
FIELD OPE	RATION TIM	E: 10		GC	GOV'T. DELAY TIME: 0					
WEATHER	:			TE	TEMPERATURE:					
GRIDS	TOTAL OE	TOTAL	BIP	SMALL	TOTAL	NON-OE	HAZMAT	B/H		
CLEARED	SCRAP	UXO	Y/N	ARMS	DIGS	SCRAP	LOCATED	REQ		
explosive mag	S: Explosive's a gazines. NATURE:	arrived on s	site an	inventor	y was cond	lucted and	they were store	ed in the		

DATE: 5/11	./98		P	PROJECT: ASSATEAGUE ISLAND						
SUXOS: P	HIL CURRY			S	SSO: T.C. BRANDT					
				Q	C: T.C. 1	BRANDT				
TOTAL GR	IDS CLEARE	D: 0		T	OTAL EX	CAVATIO	NS:			
TOTAL UX	0:			Т	OTAL SCH	RAP:				
MAG TYPE	: SCHONST	EDT GA5	2-C	M	AG SETT	ING: MA	X			
CLIENT: C	EHNC			С	ONTRAC	F: DACA8	87-95-D-0027			
FIELD OPE	RATION TIM	E: 0		G	OV'T. DEI	LAY TIM	E: 0			
WEATHER:	RAIN/WIND	Y		T	EMPERAT	TURE: 50				
GRIDS	TOTAL OE	TOTAL	BIP	SMAL	TOTAL	NON-OE	HAZMAT	B/H		
CLEARED	SCRAP	UXO	Y/N	ARMS	DIGS	SCRAP	LOCATED	REQ		
SSO/QC T.C Anthony Mos	5: The followin Brandt, Team les, Dave Millar Inc Project Ma NATURE:	Leader's Fi	red A and S	llen, Dal SO cond	e Alger, UX ucted a mag	KO Speciali	st's, James Wo	lf,		

DATE: 5/12	2/98		PR	PROJECT: ASSATEAGUE ISLAND					
SUXOS: P	HIL CURRY		SSC	D: T.C. I	BRANDT				
			QC	: T.C. I	BRANDT				
TOTAL GR	IDS CLEARE	D: 0		ТО	TAL EXO	CAVATIO	NS:		
TOTAL UX	0:			то	TAL SCI	RAP:	\		
MAG TYPE	: SCHONST	EDT GA5	2-C	MA	G SETT	ING: MA	X		
CLIENT: C	EHNC	<u> </u>		СО	NTRAC	Γ: DACA8	87-95-D-0027		
FIELD OPE	RATION TIM	E: 5		GO	V'T. DEI	LAY TIM	E: 0		
WEATHER	RAIN/WIND	Y		TE	MPERAT	FURE: 50			
GRIDS	TOTAL OE	TOTAL	BIP	SMALL	TOTAL	NON-OE	HAZMAT	B/H	
CLEARED	SCRAP	UXO	Y/N	ARMS	DIGS	SCRAP	LOCATED	REQ	
Performed ad Check out. M President Liz conducted by Due to weath allow remova Kight mobiliz	S: CEHNC Saf ministrative act let with Mr. Joh Theisen, Projec Baltimore Dist er the media da l activities to be red to the site	ivities, site in Burns (N ct Manager rict PAO, N y briefing v	safety IPS C Dave Aiss S vas he	y brief, wc Chief Rang e Frandsen Sheila Bloo eld in the p	ork plan re er). Huma , attended om PM, M oark office	n Factors A Media Day Ir. Glenn E Mr. The wind	Applications, Ir y which was arhart, CEHN and rain would	nc C PM. d not	

J

DATE: 5/13	3/98		PR	PROJECT: ASSATEAGUE ISLAND						
SUXOS: P	HIL CURRY			SS	0: T.C.	BRANDT				
				QC	T.C.	BRANDT		,		
TOTAL GR	IDS CLEARE	D: 0	_	то	TAL EX	CAVATIO	DNS:			
TOTAL UX	0:	1181 <u>- 1</u> 700		то	TAL SCI	RAP:	·····			
MAG TYPE	: SCHONST	EDT GA5	2-C	MA	G SETT	ING: MA	X			
CLIENT: C	EHNC	• • • • •	_	CO	NTRAC	Г: DACA8	87-95-D-0027			
FIELD OPE	RATION TIM	E: 10		GO	V'T. DE	LAY TIM	E: 0			
WEATHER	: RAIN/WIND	Y		ТЕ	MPERAT	FURE: 56				
GRIDS	TOTAL OE	TOTAL	BIP	SMALL	TOTAL	NON-OE	HAZMAT	B/H		
CLEARED	SCRAP	UXO	Y/N	ARMS	DIGS	SCRAP	LOCATED	REQ		
COMMENTS: CEHNC Safety Rep on Site: Mike Slovak Team 1 conducted removal activities. Team 2 excavated several contacts in 3 grids all UXO. The tide is extremely high due to the storm. The B grids will have to wait until is through. HFA was informed at 1100 Baltimore District PAO that 3 local news stations visiting the site at 1200. SUXOS and CEHNC Safety Rep conducted interviews and a flag demonstration. SUXOS SIGNATURE:								oves uld be		

DATE: 5/14	/98		PR	OJECT:	ASSATE	AGUE ISLAN	D		
SUXOS: P	HIL CURRY		SS	SSO: T.C. BRANDT					
				QC	T.C.	BRANDT			
TOTAL GR	IDS CLEARE	D: 3		то	TAL EX	CAVATIC	NS: 28		
TOTAL UX	D: 0			то	TAL SCI	RAP: 15			
MAG TYPE	: SCHONST	EDT GA5	5 2-C	MA	AG SETT	ING: MA	X		
CLIENT: C	EHNC	· · · · · · · · · · · · · · · · · · ·		cc	NTRAC	Г: DACA8	87-95-D-0027		
FIELD OPE	RATION TIM	E: 10		GC	DV'T. DE	LAY TIM	E: 0		
WEATHER:	CLOUDY/W	INDY		ТЕ	MPERAT	ГURE: 59			
GRIDS	TOTAL OE	TOTAL	BIP	SMALL	TOTAL	NON-OE	HAZMAT	B/H	
CLEARED	SCRAP	UXO	Y/N	ARMS	DIGS	SCRAP	LOCATED	REQ	
A-1	0	0	No	0	9	2	No	Yes	
A-5	15	0	No	0	3	0	No	Yes	
A-6	0	0	No	0	16	0	No	Yes	
Team 1 contin	S: CEHNC Saf nues clearance ok place today NATURE:	operations	comp			2 excavate	es 2 grids. Dem	olition	

SUXOS SIGNATURE:

Page 1 of 1

SUXOS DAILY JOURNAL

DATE: 5/15/98					ROJECT:	ASSATE	AGUE ISLAN	D		
SUXOS: P	SUXOS: PHIL CURRY					BRANDT				
				Q	C: T.C. 1	BRANDT		·		
TOTAL GR	IDS CLEARE	D: 1		Т	OTAL EX	CAVATIO	NS: 5			
TOTAL UX	0: 25			Т	OTAL SCI	RAP: 15				
MAG TYPE	: SCHONST	EDT GA5	2-C	М	AG SETT	ING: MA	x			
CLIENT: C	EHNC		_	C	ONTRAC	Γ: DACA8	87-95-D-0027			
FIELD OPE	RATION TIM	E: 10		G	OV'T. DEI	LAY TIM	E: 0			
WEATHER:	SUNNY/WAI	RM		TI	TEMPERATURE: 75					
GRIDS	TOTAL OE	TOTAL	BIP	SMALI	L TOTAL	NON-OE	HAZMAT	B/H		
CLEARED	SCRAP	UXO	Y/N	ARMS	DIGS	SCRAP	LOCATED	REQ		
A-4	15	25	No	0	5	0	No	Yes		
COMMENTS: CEHNC Safety Rep on Site: Mike Slovak Team 1 continues clearance operations completing 1 grid. Team 2 excavates 1 grid. Demolitic operations today in grid A-6. SUXOS SIGNATURE: Fund Current								ition		

DATE: 5/18	8/98		P	ROJECT:	ASSATE	AGUE ISLAN	D		
SUXOS: P	HIL CURRY		S	SSO: T.C. BRANDT					
				Q	C: T.C.	BRANDT			
TOTAL GR	IDS CLEARE	D: 5		T	OTAL EX	CAVATIO	NS: 96		
FOTAL UX	0: 21	- <u></u>		T	OTAL SCH	RAP: 12			
MAG TYPE	: SCHONST	EDT GA5	2-C	N	IAG SETT	ING: MA	X		
CLIENT: C	EHNC			C	ONTRAC	F: DACA8	87-95-D-0027		
FIELD OPE	RATION TIM	E: 10		G	OV'T. DEI	LAY TIM	E: 0		
WEATHER	SUNNY/WAI	RM		T	EMPERAT	TURE: 80			
GRIDS	TOTAL OE	TOTAL	BIP	SMAL	L TOTAL	NON-OE	HAZMAT	B/H	
CLEARED	SCRAP	UXO	Y/N	ARMS	5 DIGS	SCRAP	LOCATED	REQ	
A-2	12	20	No	0	11	2	No	Yes	
B- 1	0	1	No	0	18	0	No	Yes	
B-2	0	0	No	0	15	0	No	Yes	
B-5	0	0	No	0	37	0	No	No	
B-6	B-6 0 0 No (15	0	No	No	
	S: CEHNC Saf	<i>.</i>				ons took p	lace today in g	rid <u>A-6.</u>	
SUXOS SIG		The	C	un	\sim				

0

SUXOS SIG	NATURE:	Phil	C	My							
	S: CEHNC Saf					<u>is took plac</u>	ce today in A-6	·			
B-3	B-3 25 27 No 0					0 33 0 No Yes					
CLEARED		UXO		ARMS	DIGS		LOCATED	REQ			
GRIDS	TOTAL OE	TOTAL	BIP				HAZMAT	B/H			
WEATHER:		E. 10	·····			TURE: 90					
	RATION TIM	E: 10				LAY TIM					
CLIENT: C							87-95-D-0027				
MAG TYPE	: SCHONST	EDT GA5	52-C		AG SETT	ING: MA	<u>x</u>				
TOTAL UX	O: 2 7			то	TAL SCI	RAP: 25					
TOTAL GR	IDS CLEARE	D: 1		то	TAL EX	CAVATIO	NS: 33				
				QC	T.C.	BRANDT					
UXOS: PHIL CURRY					0: T.C.	BRANDT					
DATE: 5/19/98					PROJECT: ASSATEAGUE ISLAND						

DATE: 5/20	/98		P	PROJECT: ASSATEAGUE ISLAND						
SUXOS: P	HIL CURRY			SS	50: T.C.	BRANDT	<u> </u>			
				Q	C: T.C.	BRANDT				
TOTAL GR	IDS CLEARE	D: 2		T	OTAL EX	CAVATIO	NS: 65			
TOTAL UX	O: 139	47 - 98 - 98 - 199		T(DTAL SCI	RAP: 75				
MAG TYPE	: SCHONST	EDT GA5	2-C	M	AG SETT	ING: MA	X			
CLIENT: C	EHNC			C	ONTRAC	Г: DACA8	87-95-D-0027			
FIELD OPE	RATION TIM	E: 10		G	GOV'T. DELAY TIME: 0					
WEATHER:	SUNNY			T	EMPERAT	FURE: 90				
GRIDS	TOTAL OE	TOTAL	BIP	SMALI	TOTAL	NON-OE	HAZMAT	B/H		
CLEARED	SCRAP	UXO	Y/N	ARMS	DIGS	SCRAP	LOCATED	REQ		
A-3	50	103	No	0	21	10	No	Yes		
B-4	25	36	No	0	44	0	No	Yes		
Team 1 cleare to a local scra	S: CEHNC Saf ed an additional up dealer. Team vities where cor NATURE:	6 foot on 2 excavate	B-6. (ed 2 g	They also rids. Der	cleared same of the same of th	ons took pla				

/98		PROJECT: ASSATEAGUE ISLAND							
HIL CURRY	<u></u>			SSC	D: T.C.	BRANDT			
				QC	: T.C.	BRANDT			
(DS CLEARE)	D: 0		-	ΤΟ	TAL EX	CAVATIO	NS:		
D:				ΤΟ	TAL SCI	RAP:			
: SCHONST	EDT GA5	52-C		MA	G SETT	ING: MA	X		
EHNC				CO	NTRAC	F: DACA	87-95-D-0027		
RATION TIM	E: 10			GO	V'T. DEI	LAY TIM	E: 0		
CLOUDY/TH	IUNDER	STO	RMS	TEMPERATURE: 90					
TOTAL OE	TOTAL	BIP	SMA	LL	TOTAL	NON-OE	HAZMAT	B/H	
SCRAP	UXO	Y/N	ARM	15	DIGS	SCRAP	LOCATED	RĖQ	
ed clearing rock	cet motors								
	IDS CLEARE D: SCHONST EHNC RATION TIM CLOUDY/TH TOTAL OE SCRAP S: CEHNC Safe ed clearing roch ad shipped out a	IDS CLEARED: 0 D: SCHONSTEDT GASE EHNC RATION TIME: 10 CLOUDY/THUNDER SE TOTAL OE TOTAL SCRAP UXO CEHNC Safety Rep on ed clearing rocket motors nd shipped out along with	IDS CLEARED: 0 D: SCHONSTEDT GA52-C EHNC RATION TIME: 10 CLOUDY/THUNDER STOP TOTAL OE TOTAL BIP SCRAP UXO Y/N SCRAP UXO Y/N CLOUDY/THUNDER STOP SCRAP UXO Y/N SCRAP UXO Y/N SC	IDS CLEARED: 0 D: SCHONSTEDT GA52-C EHNC RATION TIME: 10 CLOUDY/THUNDER STORMS TOTAL OE TOTAL BIP SMA SCRAP UXO Y/N ARM SCRAP UXO Y/N ARM SCRAP UXO Y/N ARM SCRAP IN STORMS	QCIDS CLEARED:0TO'D:TO'TO'C:SCHONSTEDT GA52-CMAEHNCCOCORATION TIME:10GOCLOUDY/THUNDER STORMSTENTOTAL OETOTALBIPSCRAPUXOY/NARMSSS:CEHNC Safety Rep on Site: Noneed clearing rocket motors for turn in. Tearad shipped out along with Jet Perforators to	QC: T.C. I QC: T.C. I IDS CLEARED: 0 TOTAL EXC D: TOTAL SCH SCHONSTEDT GA52-C MAG SETT EHNC CONTRACT RATION TIME: 10 CONTRACT RATION TIME: 10 GOV'T. DEI CLOUDY/THUNDER STORMS TEMPERAT TOTAL OE TOTAL BIP SMALL TOTAL SCRAP UXO Y/N ARMS DIGS S: CEHNC Safety Rep on Site: None ed clearing rocket motors for turn in. Team 2 backet ad shipped out along with Jet Perforators to Griffis	QC: T.C. BRANDT IDS CLEARED: 0 TOTAL EXCAVATIO D: TOTAL SCRAP: : SCHONSTEDT GA52-C MAG SETTING: MA EHNC CONTRACT: DACAS RATION TIME: 10 GOV'T. DELAY TIME CLOUDY/THUNDER STORMS TEMPERATURE: 90 TOTAL OE TOTAL BIP SCRAP UXO Y/N ARMS DIGS SCRAP S: CEHINC Safety Rep on Site: None ed clearing rocket motors for turn in. Team 2 backed filled grid ad shipped out along with Jet Perforators to Griffis AFB. Vehic	QC: T.C. BRANDT IDS CLEARED: 0 TOTAL EXCAVATIONS: D: TOTAL SCRAP: : SCHONSTEDT GA52-C MAG SETTING: MAX EHNC CONTRACT: DACA87-95-D-0027 RATION TIME: 10 GOV'T. DELAY TIME: 0 CLOUDY/THUNDER STORMS TEMPERATURE: 90 TOTAL OE TOTAL BIP SCRAP UXO Y/N ARMS DIGS SCRAP LOCATED S: CEHNC Safety Rep on Site: None ed clearing rocket motors for turn in. Team 2 backed filled grids. Equipment her stores to Griffis AFB. Vehicles were wash	

Page 1 of 1

SUXOS DAILY JOURNAL

Y			SSO						
	SUXOS: PHIL CURRY								
		(QC:	T.C.	BRANDT				
RED: 0		ŕ	тот	TAL EX	CAVATIO	NS:			
		,	тот	TAL SCI	RAP:	*			
STEDT GA	52-C		MA	G SETT	ING: MA	X			
			CONTRACT: DACA87-95-D-0027						
IME: 5			GO۱	T. DE	LAY TIM	E: 0			
CLOUDY			TEN	IPERA7	TURE: 88				
E TOTAL	BIP	SMAI		TOTAL	NON-OE	HAZMAT	B/H		
CLEARED SCRAP UXO Y/N AR					SCRAP	LOCATED	REQ		
om the site. S	N			magazin	es and vehi	cles.			
	STEDT GAS TIME: 5 CLOUDY DE TOTAL UXO	NSTEDT GA52-C TIME: 5 CLOUDY DE TOTAL BIP UXO Y/N TOTAL V/N COM the site. SUXO	NSTEDT GA52-C TIME: 5 CLOUDY DE TOTAL BIP SMA UXO Y/N ARN UXO Y/N ARN Om the site. SUXOX turned	TOT NSTEDT GA52-C MAR CON TIME: 5 GOV CLOUDY TEN DE TOTAL BIP SMALL UXO Y/N ARMS Som the site. SUXOX turned in	TOTAL SCH NSTEDT GA52-C MAG SETT CONTRACT TIME: 5 GOV'T. DEL CLOUDY TEMPERAT DE TOTAL BIP SMALL TOTAL UXO Y/N ARMS DIGS	TOTAL SCRAP: NSTEDT GA52-C MAG SETTING: MA CONTRACT: DACAS TIME: 5 GOV'T. DELAY TIME CLOUDY TEMPERATURE: 88 DE TOTAL BIP SMALL TOTAL NON-OE UXO Y/N ARMS DIGS SCRAP DE SUXOX turned in magazines and vehi	TOTAL SCRAP: TOTAL SCRAP: NSTEDT GA52-C MAG SETTING: MAX CONTRACT: DACA87-95-D-0027 TIME: 5 GOV'T. DELAY TIME: 0 CLOUDY TEMPERATURE: 88 DE TOTAL BIP SMALL TOTAL NON-OE HAZMAT VIXO Y/N ARMS DIGS SCRAP LOCATED Om the site. SUXOX turned in magazines and vehicles.		

HUMAN FACTORS APPLICATIONS, INC.

Appendix F Site Photographs

DACA87-95-D-0027 Task Order #0026, Mod 1

FINAL REMOVAL ACTION REPORT



Assateague Island National Seashore is approximately 5 miles south of Ocean City, Maryland.



The Island is famous for it's wild ponies that roam freely throughout the island.



Prior to conducting any intrusive operations an explosive storage magazine was placed in a remote and secure area.



The magazine was grounded and certified by a licensed electrician. Note the four antennas on top of the magazine, and the two grounding rods in the ground.



Clearance operations begin by laying out search lanes with ropes.

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Each lane is then thoroughly search with a magnetometer. If a magnetic anomaly is located, it is marked with a yellow flag.



Some days the weather cooperates, and searching for anomalies can be enjoyable.

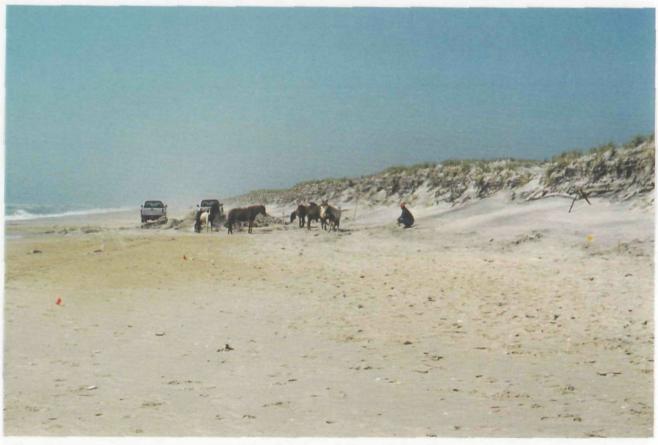


Some days the weather can cause field work to be extremely uncomfortable.



HFA UXO personnel searched each grid with magnetometers.

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The wild ponies of Assateague visited the site several times during the project.

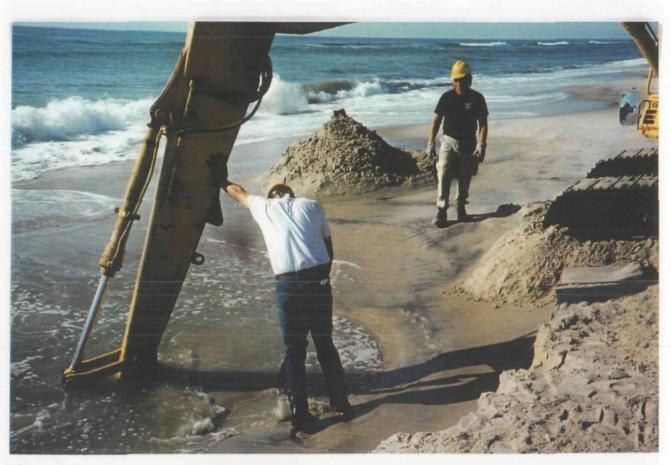


When large anomalies were discovered, a track hoe was used to investigate.



The track hoe was able to dig below the water table and remove the practice ordnance.

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The track hoe dug up a practice 5 inch warhead and one of the UXO Specialist is removing it from the hole.



Two UXO Specialist begin to remove several practice ordnance items from the track hoe bucket.



After the practice ordnance items are recovered and visually inspected, they are placed into a shallow trench and prepared for explosive venting. This is done to ensure there is no explosive residue left in the items.



An explosive charge known as a jet perforator is used to blow a small hole through each piece of practice ordnance.



Some of the practice ordnance items required two jet perforators to ensure the item did not contain any explosive residue.

IJ

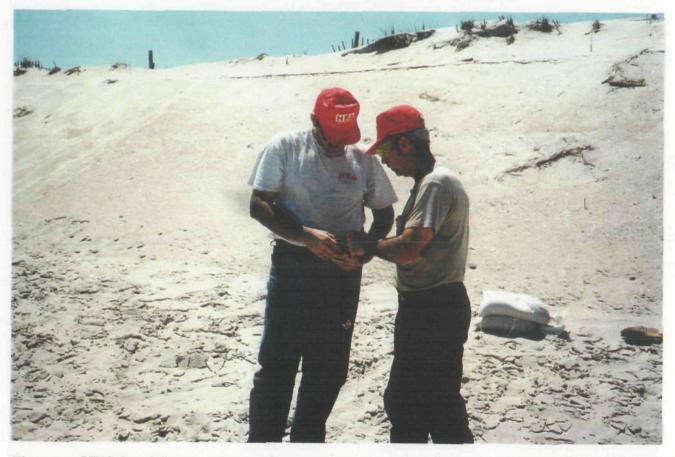
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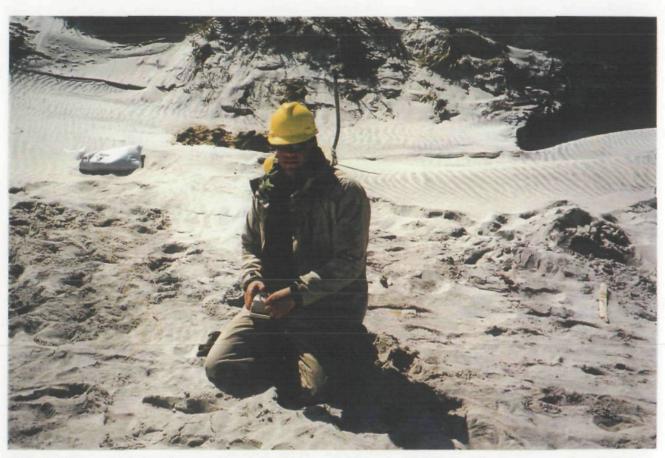
The jet perforator contains approximately 34 grams of explosives and is set off by placing detonating cord over the perforators small detonator.



The detonating cord is strung through each perforator and then attached to a blasting cap.



These two UXO Specialist are using a galvanometer to check the bridge wire of the blasting cap to ensure it is intact and has the correct resistance to explode the explosive when it charged with electricity.



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This UXO Specialist is using an electronic blasting machine to initiate the blasting cap and explode the perforators.



This 5 inch warhead has been shot with a jet perforator, note the small hole. The explosion also knocks all the rust and debris from the round also.



In the foreground is a 2.25 inch rocket. The two items to the rear are 5 inch warheads. These warheads are fitted to a 3.5 in rocket motor, not shown in the picture.

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After the practice ordnance items were explosively vented they were re-inspected and place in the back of a pickup truck for temporary storage.



At the completion of all intrusive removal activities each ordnance item was re-inspected and then cut in half with an emergency access saw to ensure no explosive residue remained. No explosive residue was detected in any of the 212 items recovered during the project.

HUMAN FACTORS APPLICATIONS, INC.

Appendix G

Video Tape, (Provided Separately)

DACA87-95-D-0027 Task Order #0026, Mod 1

FINAL REMOVAL ACTION REPORT

HUMAN FACTORS APPLICATIONS, INC.

Appendix H Record of Environmental Consideration



DEPARTMENT OF THE ARMY BALTIMORE DISTRICT, U.S. ARMY CORPS OF ENGINEERS P.O. BOX 1715 BALTIMORE, MD 21203-1715

ATTENTION OF

CENAB-PL-E

REPLY TO

19 March 1998

RECORD OF ENVIRONMENTAL CONSIDERATION

Project Title: Defense Environmental Restoration Program (DERP) for Formerly Used Defense Sites (FUDS), Assateague Island, Worcester, Maryland, and Accomack, Virginia, Site Number CO3MD09301- Time Critical Removal Action

Site Description: Assateague Island is a low, sandy, 36-mile long barrier island located directly south of the Ocean City Inlet in Worcester County, Maryland. The southern most tip of the island is located in Accomack County, Virginia. The island is designated as a National Seashore. In addition, there is a National Wildlife Refuge and a Maryland State Park located on the island. The state park and a portion of the National Seashore comprise the "developed zone" because that is the only area that has amenities for the public. The proposed action site is within this developed zone near the ranger station.

Background: Area A in figure 1, is a Formerly Used Defense Site (FUDS). It was used by the Navy and/or Army Air Corps as rocket/bombing ranges from 1944 to 1947. Ordnance and explosive wastes (OE) have been removed from this area in the past.

The proposed action is a Time Critical Removal Action (TCRA) of **Proposed Action:** ordinances and explosives (OE) on Assateague Island, Maryland. The project will involve the survey of the areas with ground-penetrating radar, and the removal of all ordnance. Potential actions might include subsurface soil testing to determine if contaminated soil or chemical warfare material are present, and if containers or contaminants are present, the removal, storage or disposal of materials may also occur. All excavated areas will be backfilled and restored once any removal actions are completed. The recommended action is a Time Critical Removal Action to a depth that is required to remove all currently identified OE from the beach area (expected depth is 2 - 3 feet). This includes the area of the February 1998 OE event and the trench identified in the 1995 Site Investigation Report. (See attached Enclosure 1, Chronology of Previous Findings). The proposed area for OE removal is approximately 3 - 4 acres. These actions will significantly reduce the risks to humans while serving and providing the public use of the site as currently permitted. Also, the Baltimore District, Huntsville Center, the NPS, the local Explosive Ordnance Detachment(EOD) unit and the regulatory community plan to establish a coordination network for a quick and thorough response to future OE actions at Assateague Island.

Duration of Proposed Action: April 1998 - May 1998

Reasons for Using Record of Environmental Consideration (REC): A REC is being used for the proposed action because the Department of Defense (DoD) has advised that DoD components are not required to comply with the National Environmental Policy Act (NEPA) procedural requirements when undertaking a Defense Environmental Restoration Action (DERA) funded, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), or other similar clean-ups. The overall NEPA mandate for a fully-informed and well-considered decision will be achieved through compliance with the National Contingency Plan (NCP) and the DERP statute, 10 U.S.C. 2701. The Archives Search Report, Conclusions and Recommendations for Assateague Island record (U.S. Army Corps of Engineers, Rock Island, 1994), the Archives Search Report, Findings for Assateague Island record (U.S. Army Corps of Engineers, Rock Island, 1994) and the Site Investigation Report, Assateague Island, Worcester County, Maryland and Accomack County, Virginia record (U.S. Army Corps of Engineers, Huntsville, 1995) were used to prepare this document. The following key environmental resources/issues were considered in preparing this record:

Environmental Considerations: The table below lists the key environmental resources/issues that were considered and potential impacts associated with each resource. A discussion of each resource area and potential impacts of the project is presented below.

Project: Assateague Island FUDS Worcester County, MD and Accomack						
County, VA						
Project # CO3MD09301			83 <u>3</u> 3) ((Second		
	NOIMPACT	ST	LT	LOC	WS	SI
LAND USE		X		X		
ENDANGERED SPECIES	X					
WETLANDS		X		Х		
WATER QUALITY		X		X		
WILD AND SCENIC RIVERS	X					
FISH AND WILDLIFE		X		X		
PRIME AND UNIQUE FARMLANDS	X					
HAZARDOUS AND TOXIC SUBSTANCES	X					
CULTURAL RESOURCES	X					
AIR QUALITY	X			1		
TRAFFIC		X		X		
NOISE		X		 	1	
ENVIRONMENTAL JUSTICE (EO	X	[1		
NOTE: ST = Short Term						

LT = Long Term LOC = Local

WS = Wide Spread

SI = Significant Impact

a. <u>Land-Use:</u> The subject property is zoned recreational, and owned by the National Park Service. The area is a part of Assateague Island National Seashore and Assateague State Park.

Public use of the area includes, but is not limited to camping, picnicking, sunbathing and fishing. Public swimming, sunbathing and fishing take place in the vicinity of the OE find. Once the OE removal is complete the existing land use will resume.

b. <u>Endangered Species</u>: Coordination with the U.S. Fish and Wildlife Service under Section 7 of the Endangered Species Act confirms that the island is inhabited by two endangered animal species, the Peregrine Falcon (Falco peregrinus tundrius) and the Delmarva Fox Squirrel (Sciurus niger ginereus). The Piping Plover (Charadrius melodus), an endangered species, nests on Assateague Island, but is not present year-round, and is not found in the developed areas of the park. One reptile, the Atlantic Loggerhead Turtle (Caretta), is known to migrate past the island. Recent data suggests that the Assateague coast is relatively unimportant to loggerheads as nesting habitat and has little potential for increased use. Because the area of remediation is developed none of the listed species are expected to be located in the vicinity. Thus, there will be no impact to threatened and endangered species.

c. <u>Wetlands</u>: No non tidal wetlands are present within the proposed project area. Any areas to be disturbed during the remedial process that may be located within the inter-tidal zone will be restored to pre-existing conditions, thus any impacts in these areas will be temporary.

d. <u>Water Quality</u>: Ocean surface waters are located adjacent to the project site. Potential impacts to adjacent surface waters will be minimized by adherence to local, state, and Federal regulations regarding sediment and erosion control. Temporary turbidity may result during removal of OE. Turbidity will cease immediately following completion of the action.

e. <u>Fish and Wildlife</u>: Vertebrate species inhabiting the campground areas or invertebrates inhabiting inter-tidal or dune areas may be temporarily displaced during remedial actions. Individuals that are displaced will return to these areas shortly after the action is ceased. No permanent impacts will be sustained by any populations inhabiting the site.

f. <u>Wild and Scenic Rivers</u>: There are no designated Wild and Scenic Rivers located at or near the project area. Therefore, there will be no impacts to this resource.

g. <u>Prime and Unique Farmlands</u>: The project site is not located on prime and unique farmland. Therefore, there will be no impacts to this resource.

h. <u>Hazardous and Toxic Substances</u>: Actual or potential releases of hazardous substances from the project site, if not addressed by implementing response actions, may present an endangerment to human health, welfare and/or the environment. All remedial actions taken will be in consultation with local regulatory agencies to reduce the risk to human health, welfare and the environment. Disposal and transport of any hazardous waste removed from the project site will be conducted under all applicable local, state, and Federal laws and regulations.

i. <u>Cultural Resources</u>: A review of known and predicted cultural resources was performed for this project. The Maryland State Historic Preservation Officer concurred with the Baltimore District's determination that the Time Critical Removal Action would have no effect on cultural resources.

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j. <u>Air Quality</u>: The proposed action was evaluated to determine if the Clean Air Act Conformity Requirements apply (58 Fed. Reg. 63214, November 30, 1994). The project is exempt from this regulation under Section 93.153 (d)(5) because "Direct emissions from remedial and removal actions carried out under the Comprehensive Environmental Response, Compensation and Liability Act (CERLA) and associated regulations [are exempt] to the extent such emissions either comply with the substantive requirements of the PSD/NSR permitting program or are exempted from other environmental regulation under the provisions of CERCLA and applicable regulations issued under CERLA." The proposed action will not have a significant adverse impact on air quality at Assateague Island.

k. <u>Traffic</u>: Temporary increases in vehicular traffic associated with the removal of the ordnance will have no lasting impact on the surrounding area. If it becomes necessary to establish an exclusion zone for safety reasons, there may be temporary road closures. If road closures are necessary, normal traffic flow will resume after any removal action is completed. Disposal and transport of any hazardous waste removed from the project site will be conducted by a licensed contractor under all applicable local, state and Federal law. Public vehicle access will not be restricted.

1. <u>Noise:</u> Other than the temporary presence of vehicles required to complete the removal action, the mobilization and implementation of response actions at the project site will not have a significant adverse impact.

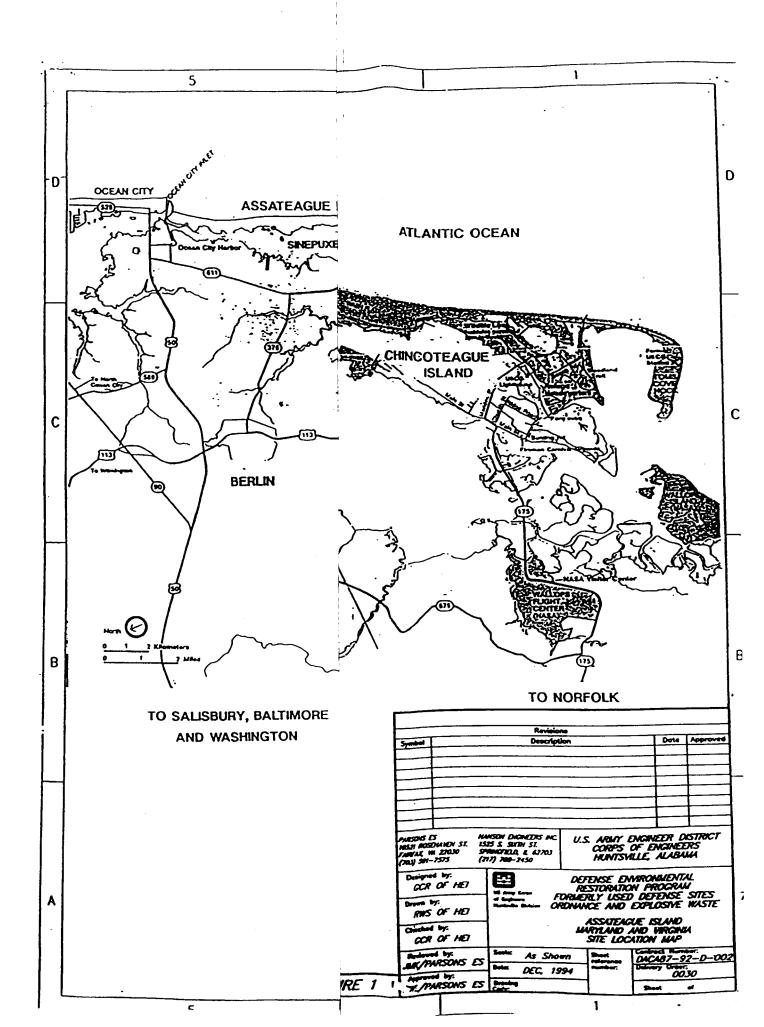
m. <u>Environmental Justice (EO 12898)</u>: Executive Order 12898, dated February 11, 1994, requires Federal agencies to identify and address disproportionately high adverse effects to human health and the environment as a result of its activities on minority and low income populations in the United States. There are no low income or minority residential communities in the vicinity of the project area; therefore, there will be no impact to this resource. Removal of ordnance is expected to reduce risks to visitors to the National Seashore Park and benefit the environment.

Conclusion: Based upon a review of the proposed action and resources/issues described above, it has been determined that the Removal of Ordnance from the Assateague National Seashore Park will result in the enhancement of environmental quality by the removal of unexploded ordnance and surrounding chemical wastes; will present no environmentally controversial change to existing environmental conditions and is similar to actions previously examined which were found to have no significant environmental impacts. Additionally, DoD components are not required to comply with NEPA's procedural requirements when undertaking a DERA funded RCRA or CERCLA clean-up action. However, AR 200-2 states that a REC is used when the proposed action is exempt from NEPA.

Date: 24 Mar 18 Approved By:

BRUCE A. BERWICK Colonel, Corps of Engineers Commanding

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Chronological Table of Previous Findings of Ordnances and Explosives:

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Year	Activity	Pindings
1000		
1988	Navy EOD deployed to north end of beach North Ocean Beach	Stinger-one rocket
1988- Jul	144th EOD (Ft Meade) deployed	4- 5" rockets
1988-	Navy EOD Mobile Unit took over operations	11 -2.25" rocket motors
Jul	Conducted underwater survey, discovered	11 - 2.25" rocket heads
	trench offshore	2 -5" rocket heads (two suspect live found to
		be inert)
		2 - 3.25" rocket motors
		Numerous ballistic tips
		No removal action taken
1991	HFA conducts site visit and research of site	5" rocket motor parts
		MK 43 practice bomb
		20mm cannon casing
		Recommend large scale ordnance survey
1992	ISSI Unexploded Ordnance, Inc. conducted	Shipwreck, fencing & metal pipes.
	surface and subsurface survey of North Ocean	Low sensitivity magnetometers used.
	Beach Area	No ordnance or related items found.
1994	Rock Island District prepared Archive Search	Areas A, C & E confirmed areas of concern:
	Report for HNC	EE/CA recommended
		Areas B &D potential areas of concern:
		Preliminary Assessments recommended
1994-	Parsons Engineering Science for HNC & NAB	Various munitions found :
1995	-UXB International Conduct field work	20 - north area
	Magnetometers: only areas A &C	109 - area west of dunes
	Intrusive investigations: only in A & C	36 - on shoreline in excavated area in north
	Area B was investigated to locate offshore	0 - south area
	trench, no surveys were performed within D or	Areas
	E (except reconnaissance sweeps)	No live ordnance found. Site Investigation
	A & C - land (350 acres each)	completed, EE/CA suspended.
	B &D - water (300 acres each)	ROD signed: No Further Action (NOFA).
1000	E- remaining acres of site	
1 998	Navy EOD Norfolk called by NPS to	Approximately 200 items discovered in North
	investigate beach. USACE contacted and	Beach Area, Currently covered by sand.
	assigned lead agency under FUDS.	Developing Plan of Action for site.



DEPARTMENT OF THE ARMY BALTIMORE DISTRICT, U.S. ARMY CORPS OF ENGINEERS P.O. BOX 1715 BALTIMORE, MD 21203-1715

REPLY TO ATTENTION OF

March 19, 1998

Planning Division

Dr. J. Rodney Little State Historic Preservation Officer Maryland Historical Trust Division of Historical and Cultural Programs 100 Community Place Crownsville, Maryland 21032-2023

Dear Dr. Little:

The purpose of this letter is to solicit comments from your agency regarding impacts, if any, to cultural/archeological resources in accordance with Section 106 of the National Historic Preservation Act of 1966 and its implementing regulation, 36 CFR 800 "Protection of Historic Properties" for the removal of ordnance and explosives (OE) that were discovered on the seashore of Assateague Island, Worcester County, Maryland in February 1998. Telephone coordination with Ms. Susan Langley of your office on March 17, 1998 indicated the removal of ordnance in the project area was unlikely to have an effect on historic resources.

The U.S. Army Corps of Engineers, Baltimore District, is preparing a Record of Environmental Consideration (REC) in accordance with the National Environmental Policy Act (NEPA) for the removal action. The proposed action is to excavate the sand to an approximate depth of 2-3 feet, in order to remove all currently identified OE from the beach area. The removal action is currently scheduled to begin in April 1998. The project is located on the Assateague Island National Seashore in the developed zone south of the Assateague State Park in the vicinity of the ranger station (Enclosure 1). Previous discoveries of ordnance were made in the general vicinity of the most recent find. Coordination with your office on these previous finds indicated concurrence with our determination that there would be no effect on historic resources resulting from the removal of ordance in this area (Enclosure 2).

Due to the similarity of this project and its location to previous removal actions, we request your concurrence with our determination of no effect on historic properties by March 20, 1998. Concurrence with these findings will complete the Section 106 process. If you have any questions regarding this matter, please contact me or my action officer, Ms. Carol L. Bernstein, at (410) 962-2942 or by fax (410) 962-4698.

Sincerely,

Haussel L. Nelson Dr. James F. Johnson Chief, Planning Division

Enclosures

Concur no historic properties present.

Dr. J. Rodney Little Maryland Historical Trust State Historic Preservation Officer



DEPARTMENT OF THE ARMY BALTIMORE DISTRICT, U.S. ARMY CORPS OF ENGINEERS P.O. BOX 1715 BALTIMORE, MD 21203-1715

REPLY TO ATTENTION OF

March 19, 1998

Planning Division

Mr. John Wolflin Supervisor U.S. Fish and Wildlife Service Chesapeake Bay Field Office 177 Admiral Cochrane Drive Annapolis, Maryland 21401

Dear Mr. Wolflin:

The purpose of this letter is to solicit comments from your agency regarding impacts, if any, to threatened or endangered species in accordance with Section 7 of the Endangered Species Act of 1973 (ESA)(87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.) related to the removal of ordnance and explosives (OE) that were discovered on the seashore of Assateague Island, Worcester County, Maryland in February 1998. Telephone coordination with Mr. George Ruddy of your office on March 17, 1998 indicated there would likely be no impact on threatened or endangered species from the proposed removal action.

The U.S. Army Corps of Engineers, Baltimore District, is preparing a Record of Environmental Consideration (REC) in accordance with the National Environmental Policy Act (NEPA) for the removal action. The removal action will include excavation of sand to an approximate depth of 2-3 feet, in order to remove all currently identified OE from the beach area. The removal action is currently scheduled to begin in April 1998. The project is located on the Assateague Island National Seashore in the developed zone south of the Assateague State Park in the vicinity of the ranger station (see enclosed map). The property is a Formerly Used Defense Site (FUDS), project number CO3MD09301, and is currently owned by several local, state and Federal agencies as well as other private interests.

Due to the nature of this project and the upcoming spring and summer recreational seasons, we request that you review this information and provide any comments to our office by March 20, 1998. If you have any questions regarding this matter, please contact my action officer, Ms. Carol L. Bernstein, at (410) 962-2942 or by fax (410) 962-4698.

Sincerely,

Howold h. Nelson

Dr. James F. Johnson Chief, Planning Division

Enclosures

Copy furnished: Mr. Carl Zimmerman, National Park Service



March 18, 1998

Maryland Department of Housing and Community Development

Division of Historical and Cultural Programs

100 Community Place Crownsville, Maryland 21032

410-514-7600 1-800-756-0114 Fax: 410-987-4071 Maryland Relay for the Deal-1-800-735-2258

http://www.dhcd.state.md.us

Partis N. Glendening Governor

Patricia J. Payne Secretary

Raymond A. Skinner Deputy Secretary Dr. James F. Johnson Chief, Planning Division Department of the Army Baltimore District, U.S. Army Corps of Engineers P.O. Box 1715 Baltimore, Maryland 21203-1715

RE: Time Critical Removal Action Ordnances and Explosives Assate ague Island, Ocean City Maryland

Dear Dr. Johnson,

This letter is in response to the request for comments faxed to this office yesterday in the form of a draft letter to Mr. J. Rodney Little, SHPO. Based on the information provided in the form of previous correspondence and maps, the location and removal of ordnances and explosives in the areas indicated are unlikely to have an effect on archaeological resources that are eligible for the National Register of Ilistoric Piaces.

While we recognize the importance of removing these potentially hazardous materials, Mr. Larry Eastman of your office informed me that these materials were located about four weeks ago. Therefore, to be asked for comments two days before your deadline appears that more timely communication and coordination with this office is required. We had staff at the National Seashore on both February 12 and March 12 and could have checked the area for any potentially imperiled archaeological resources.

We request notification at least one week prior to the removal of the ordnances so as to have staff on site in the unlikely event unanticipated cultural remains are encountered, in compliance with 36 CFR 800.11. I understand that further plans involve activities in the nearshore waters and would remind you that under the Agreement to Establish Concurrent Jurisdiction Over Lands Administered by the Nutional Park Service Within the State of Maryland (October 7, 1976), "The United States hereby retrocedes and relinquishes to the State of Maryland, and accepts from the State of Maryland, such measure of legislative jurisdiction both civil and criminal as is necessary to establish concurrent legislative jurisdiction between the State of Maryland and the United States over all lands, subaqueous lands and waters comprising the units of the National Park System in the State of Maryland described above." Hence further coordination and consultation with this office is necessary.



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We are pleased to cooperate whenever and wherever possible with the National Parks Service and Corps of Engineers. If you have further questions or require more information, please feel free to contact me at 410-514-7662; fax 410-987-4071, or by e-mail: langley @dhcd.state.md.us.

Sincerely

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Susan B.M. Langley, Ph.D. State Underwater Archaeologist

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cc. Mr. Marc Koenings Mrs. Howard Yerges Mrs. Rick Savage Ms. Beth Cole

CENAB-PL-E (200)

MEMORANDUM FOR DISTRICT COUNSEL, ATTN: CENAB-OC (Ms. Kristin Budzynski)

SUBJECT: Legal Review of Environmental Compliance (REC) Documentation for Assateague Island Ordnance Removal

1. References:

a. Meeting among Ms. Carol Bernstein, Mr. Mark Colosimo, and Ms. Shannon Smith, CENAB-PL-E, and Ms. Budzynski, CENAB-OC, 10 March 1998, subject: Legal Review of Environmental Compliance Documentation for Assateague Island Ordnance Removal and the appropriate level of NEPA documentation.

b. FONECON between Ms. Bernstein and Ms. Budzynski, 18 March 1998, subject: Legal Review of Environmental Compliance Documentation for Assateague Island Ordnance Removal and pre-coordination for expedited review of the REC.

2. The purpose of this memorandum is to provide a Record of Environmental Consideration (REC) (Encl) for the subject project for legal sufficiency review. This project is a Time Critical Removal Action (TCRA) and involves the identification and removal of ordnance and explosives found on Assateague Island. Coordination letters were faxed to resource agencies yesterday. We have received comments from the MD SHPO, but are awaiting formal comments from the U.S. Fish and Wildlife Service. A FONECON record will be attached to the REC to address USFWS comments.

3. As discussed and agreed to per Ref. 1b, Planning Division requests that you review this document and provide your legal sufficiency determination concurrent with the coordination effort. Per the referenced FONECON, Ms. Budzynski has agreed to review the document by 19 March.

4. This document has been technically reviewed and approved by Planning Division's Environmental Policy Advisor, Mr. Mark Colosimo.

5. Planning Division requests your response be provided to this office by 19 March 1998. If you can not meet this date or have any questions, please contact Ms. Bernstein at 2-2942. Encls ROBERT F. GORE

Chief, Planning and Environmental Services Branch

CF: PES Reading File

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SMITH/tm/0695/CENAB-PL-E COLOSIMO/CENAB-PL-E BERNSTEIN/CENAB-PL-E EASTMAN/CENAB-PL-E GORE/CENAB-PL-E

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CENAB-PL-E (200)

18 March 1998

MEMORANDUM FOR THE RECORD

SUBJECT: Assateague Island FUDS - Section 7 Consultation

1. Planning Division is preparing a Record of Environmental Consideration (REC) for the proposed removal of ordnance on a portion of the National Seashore on Assateague Island. Ordnance was found on island in February 1998.

2. To expedite the process for Section 7 consultation under the Endangered Species Act, I called Mr. George Ruddy of the U.S. Fish and Wildlife Service in Annapolis, Maryland. I explained to Mr. Ruddy the proposed removal action, location of the project site and our understanding of existing conditions at the site. The site is open shore line in the developed zone of the National Seashore, just south of the State Park.

3. By voice mail message, Mr. Ruddy indicated there would be no expected impacts on threatened or endangered species in the area and that Section 7 consultation could be considered complete.

4. A formal letter too FWS from Baltimore District is being prepared. Formal approval from FWS is expected.

Prepared by:

LARRY EASTMAN Military Team Leader